

Latest

Connecting via Winsock to STN

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LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS	4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS	7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	8	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000
NEWS	9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	13	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS	14	DEC 18	CA/CAPLUS patent kind codes updated
NEWS	15	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS	16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	17	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS	18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	19	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS	20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	22	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS	23	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS	24	JAN 29	PHAR reloaded with new search and display fields
NEWS	25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	26	FEB 13	CASREACT coverage to be extended
NEWS	27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	30	Feb 26	MEDLINE reloaded with enhancements
NEWS	31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS	32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	33	Feb 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	34	Feb 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases

NEWS EXPRESS NOVEMBER 10 -CURRENT WINDOWS VERSION IS V8.01c, CURRENT

03/13/2007

MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:43:35 ON 13 MAR 2007

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.84	0.84

FILE 'REGISTRY' ENTERED AT 12:45:37 ON 13 MAR 2007

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STRUCTURE FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

DICTIONARY FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

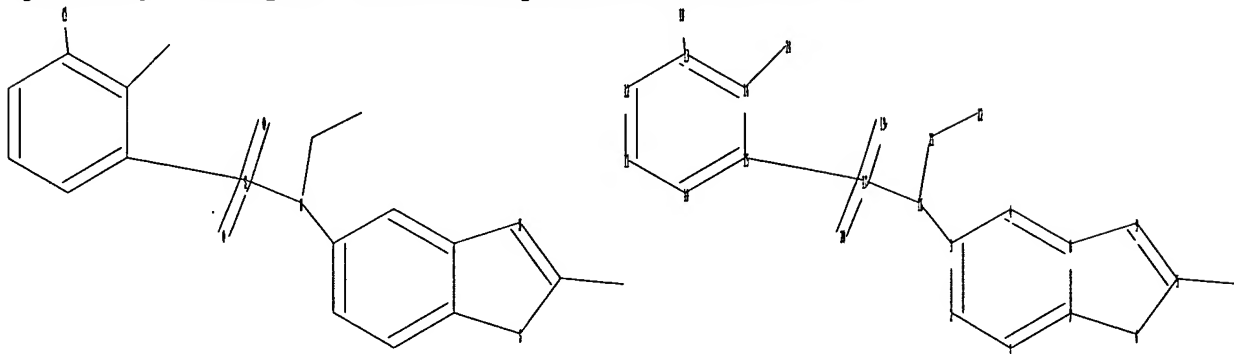
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

10690708.trn

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10690708.str



chain nodes :

16 17 18 19 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

chain bonds :

3-16 5-23 13-18 14-24 15-17 16-17 16-21 17-19 17-20 21-22

ring bonds :

1-2 1-7 2-3 3-4 4-8 5-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15

exact/norm bonds :

3-16 5-9 8-9 15-17 16-17 16-21 17-19 17-20

exact bonds :

5-6 5-23 6-7 13-18 14-24 21-22

normalized bonds :

1-2 1-7 2-3 3-4 4-8 7-8 10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

containing 1 : 10 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS

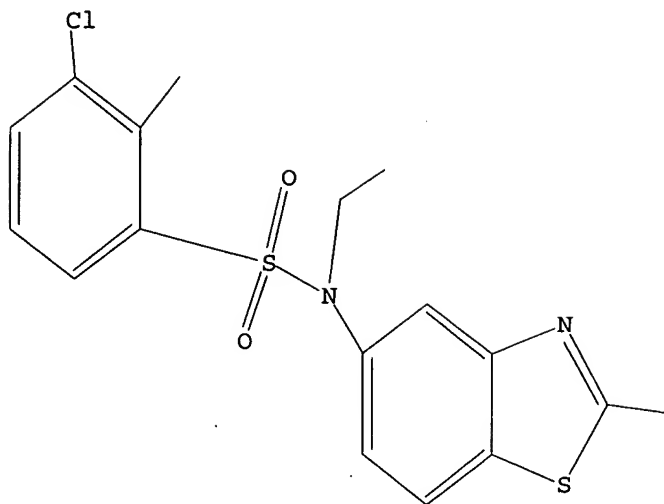
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:45:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 12:46:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 50 TO ITERATE

100.0% PROCESSED 50 ITERATIONS
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
172.10	172.94

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 12:46:06 ON 13 MAR 2007
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FILE COVERS 1907 - 13 Mar 2007 VOL 146 ISS 12
FILE LAST UPDATED: 11 Mar 2007 (20070311/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

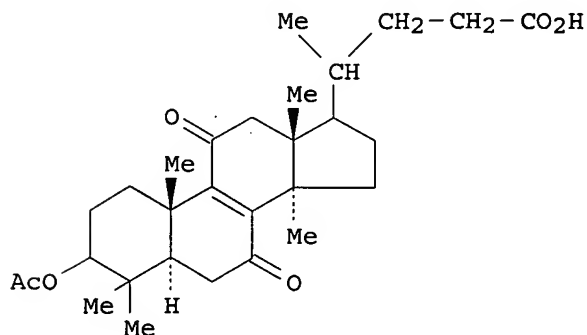
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 3 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:476237 HCAPLUS
DOCUMENT NUMBER: 145:137256
TITLE: The Discovery of New 11 β -Hydroxysteroid
Dehydrogenase Type 1 Inhibitors by Common Feature
Pharmacophore Modeling and Virtual Screening
AUTHOR(S): Schuster, Daniela; Maurer, Evelyne M.; Laggner,
Christian; Nashev, Lyubomir G.; Wilckens, Thomas;
Langer, Thierry; Odermatt, Alex
CORPORATE SOURCE: Institute of Pharmacy, Department of Pharmaceutical
Chemistry, University of Innsbruck, Innsbruck, 6020,
Austria
SOURCE: Journal of Medicinal Chemistry (2006), 49(12),
3454-3466
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

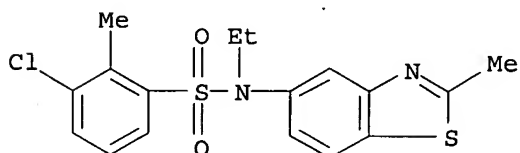


I

AB 11 β -Hydroxysteroid dehydrogenase (11 β -HSD) enzymes catalyze the conversion of biol. inactive 11-ketosteroids into their active

11 β -hydroxy derivs. and vice versa. Inhibition of 11 β -HSD1 has considerable therapeutic potential for glucocorticoid-associated diseases including obesity, diabetes, wound healing, and muscle atrophy. Because inhibition of related enzymes such as 11 β -HSD2 and 17 β -HSDs causes sodium retention and hypertension or interferes with sex steroid hormone metabolism, resp., highly selective 11 β -HSD1 inhibitors are required for successful therapy. Here, the authors employed the software package Catalyst to develop ligand-based multifeature pharmacophore models for 11 β -HSD1 inhibitors. Virtual screening expts. and subsequent in vitro evaluation of promising hits revealed several selective inhibitors. Efficient inhibition of recombinant human 11 β -HSD1 in intact transfected cells as well as endogenous enzyme in mouse 3T3-L1 adipocytes and C2C12 myotubes was demonstrated for compound (I), which was able to block subsequent cortisol-dependent activation of glucocorticoid receptors with only minor direct effects on the receptor itself. Our results suggest that inhibitor-based pharmacophore models for 11 β -HSD1 in combination with suitable cell-based activity assays, including such for related enzymes, can be used for the identification of selective and potent inhibitors.

IT 686746-36-1
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (discovery of new hydroxysteroid dehydrogenase inhibitors by common feature pharmacophore modeling and virtual screening)
 RN 686746-36-1 HCAPLUS
 CN Benzenesulfonamide, 3-chloro-N-ethyl-2-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:261388 HCAPLUS
 DOCUMENT NUMBER: 144:460298
 TITLE: Benzothiazole derivatives as novel inhibitors of human 11 β -hydroxysteroid dehydrogenase type 1
 AUTHOR(S): Su, Xiangdong; Vicker, Nigel; Ganeshapillai, ~~Harshini~~; Smith, Andrew; Purohit, Atul; Reed, Michael J.; Potter, Barry V. L.
 CORPORATE SOURCE: Medicinal Chemistry, Department of Pharmacy and Pharmacology and Sterix Ltd., University of Bath, Bath, BA2 7AY, UK
 SOURCE: Molecular and Cellular Endocrinology (2006), 248(1-2), 214-217
 CODEN: MCEND6; ISSN: 0303-7207
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Selective inhibitors of 11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD1) have considerable potential as treatments for metabolic diseases, such as diabetes mellitus type 2 or obesity. Here, we report

the discovery and synthesis of a series of novel benzothiazole derivs. and their inhibitory activities against 11 β -HSD1 from human hepatic microsomes measured using a RIA method. The benzothiazole derivs. 1 and 2 showed greater than 80% inhibition for 11 β -HSD1 at 10 μ M and exhibited IC50 values in the low micromolar range. The preliminary SAR study suggested the introduction of a chlorine substituent at the 4 position of the benzothiazole ring greatly enhanced the inhibitory activities. Docking studies with the benzothiazole derivative 1 into the crystal structure of human 11 β -HSD1 revealed how the mol. may interact with the enzyme and cofactor.

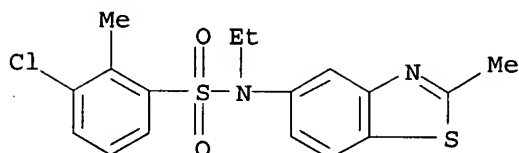
IT 686746-36-1

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(benzothiazole derivs. as inhibitors of human 11 β -hydroxysteroid dehydrogenase type 1)

RN 686746-36-1 HCAPLUS

CN Benzenesulfonamide, 3-chloro-N-ethyl-2-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:368925 HCAPLUS

DOCUMENT NUMBER: 140:391280

TITLE: Preparation of arylsulfonylbenzazoles as inhibitors of 11- β -hydroxy steroid dehydrogenase type 1 and type 2.

INVENTOR(S): Vicker, Nigel; Su, Xiangdong; Ganeshapillai, Dharshini; Purohit, Atul; Reed, Michael John; Potter, Barry Victor Lloyd

PATENT ASSIGNEE(S): Sterix Limited, UK

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037251	A1	20040506	WO 2003-GB4590	20031023
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

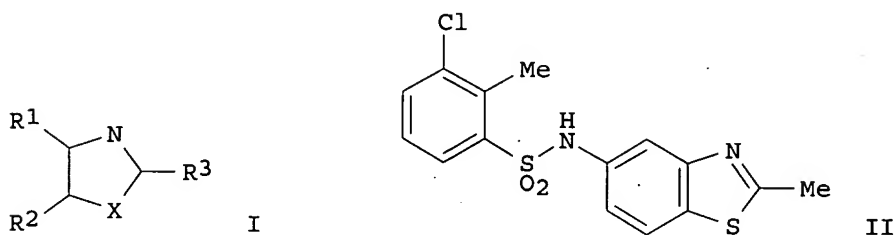
CA 2501228	A1	20040506	CA 2003-2501228	20031023
AU 2003274373	A1	20040513	AU 2003-274373	20031023
US 2004143124	A1	20040722	US 2003-690708	20031023
EP 1556040	A1	20050727	EP 2003-758357	20031023

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003015605	A	20050830	BR 2003-15605	20031023
CN 1723022	A	20060118	CN 2003-80105509	20031023
JP 2006514614	T	20060511	JP 2004-546183	20031023
NO 2005002469	A	20050722	NO 2005-2469	20050523

PRIORITY APPLN. INFO.: GB 2002-24830 A 20021024
US 2002-436635P P 20021230
WO 2003-GB4590 W 20031023

OTHER SOURCE(S): MARPAT 140:391280
GI



AB Title compds. [I; 1 of R1, R2 = R5SO2N(R4)L; R4 = H, hydrocarbyl; R5 = hydrocarbyl; L = optional linker group; R1R2 = atoms form a ring; X = S, O, NR6, C(R7)(R8); R6-R8 = H, hydrocarbyl], were prepared. Thus, title compound (II) inhibited 11 β -HSD1 with IC50 = 6.6 μ M.

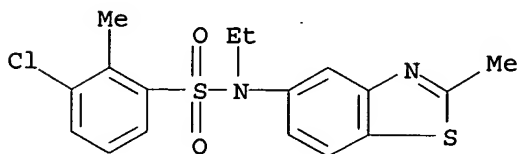
IT 686746-36-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indoles, benzothiazoles, benzoxazoles, and benzimidazoles as inhibitors of hydroxy steroid dehydrogenase)

RN 686746-36-1 HCAPLUS

CN Benzenesulfonamide, 3-chloro-N-ethyl-2-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



=> FIL REGISTRY
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
31.41	204.35

10690708.trn

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.34	-2.34

FILE 'REGISTRY' ENTERED AT 12:49:59 ON 13 MAR 2007
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STRUCTURE FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6
DICTIONARY FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

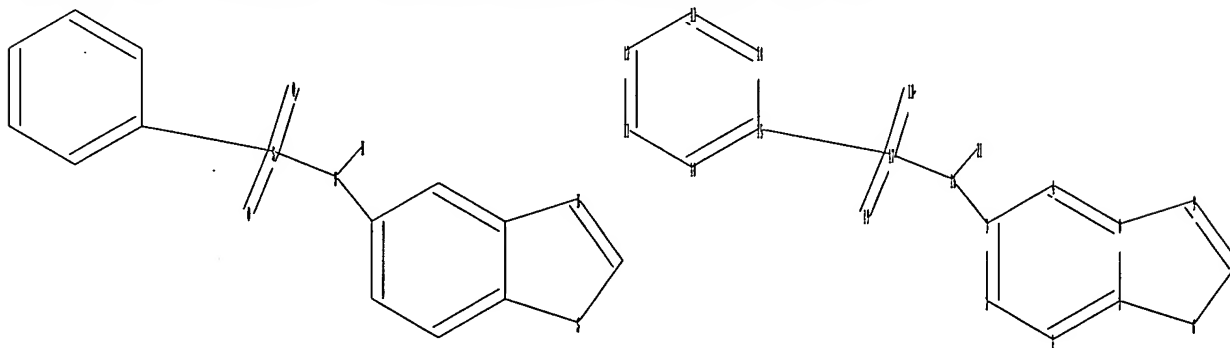
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10690708a.str



chain nodes :

16 17 18 19 21

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

chain bonds :

3-16 15-17 16-17 16-21 17-18 17-19

ring bonds :

1-2 1-7 2-3 3-4 4-8 5-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15

exact/norm bonds :

3-16 5-9 8-9 15-17 16-17 17-18 17-19

exact bonds :

5-6 6-7 16-21

10690708.trn

normalized bonds :

1-2 1-7 2-3 3-4 4-8 7-8 10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

containing 1 : 10 :

Match level :

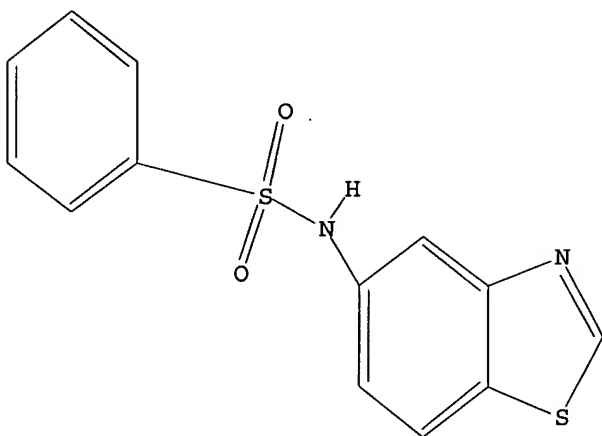
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS
21:CLASS

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 12:50:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 33 TO 447

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 12:50:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 296 TO ITERATE

100.0% PROCESSED 296 ITERATIONS

52 ANSWERS

10690708.trn

SEARCH TIME: 00.00.02

L7 52 SEA SSS FUL L5

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

376.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.34

FILE 'HCAPLUS' ENTERED AT 12:50:33 ON 13 MAR 2007

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FILE COVERS 1907 - 13 Mar 2007 VOL 146 ISS 12

FILE LAST UPDATED: 11 Mar 2007 (20070311/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7

L8 8 L7

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

15.60

392.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.34

FILE 'REGISTRY' ENTERED AT 12:54:09 ON 13 MAR 2007

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STRUCTURE FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

DICTIONARY FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

10690708.trn

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

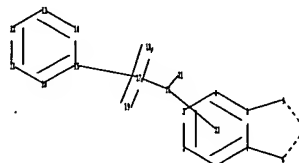
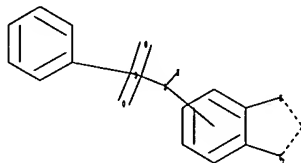
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10690708b.str



chain nodes :

16 17 18 19 21

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

chain bonds :

15-17 16-21 16-17 17-18 17-19

ring bonds :

1-2 1-7 2-3 3-4 4-8 5-6 5-9 6-7 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15

exact/norm bonds :

5-6 5-9 6-7 8-9 15-17 16-21 16-17 17-18 17-19

normalized bonds :

1-2 1-7 2-3 3-4 4-8 7-8 10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

containing 1 : 10 :

G1:O,S,N,CH2,NH

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS

21:CLASS 23:Atom

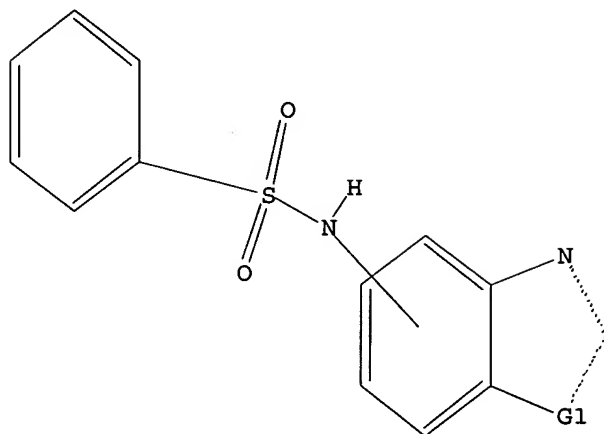
10690708.trn

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



G1 O,S,N,CH2,NH

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 12:54:27 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5559 TO ITERATE

36.0% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

32 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 106710 TO 115650
PROJECTED ANSWERS: 1213 TO 2343

L10 32 SEA SSS SAM L9

=> s 19 sss full

FULL SEARCH INITIATED 12:54:36 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 114915 TO ITERATE

100.0% PROCESSED 114915 ITERATIONS
SEARCH TIME: 00.00.01

1585 ANSWERS

L11 1585 SEA SSS FUL L9

=> FIL HCAPLUS

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
172.10	564.15

10690708.trn

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

FILE 'HCAPLUS' ENTERED AT 12:54:48 ON 13 MAR 2007
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FILE COVERS 1907 - 13 Mar 2007 VOL 146 ISS 12
FILE LAST UPDATED: 11 Mar 2007 (20070311/ED)

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(FILE 'HOME' ENTERED AT 12:43:35 ON 13 MAR 2007)

FILE 'REGISTRY' ENTERED AT 12:45:37 ON 13 MAR 2007

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 1 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:46:06 ON 13 MAR 2007

L4 3 S L3

FILE 'REGISTRY' ENTERED AT 12:49:59 ON 13 MAR 2007

L5 STRUCTURE UPLOADED
L6 0 S L5
L7 52 S L5 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:50:33 ON 13 MAR 2007

L8 8 S L7

FILE 'REGISTRY' ENTERED AT 12:54:09 ON 13 MAR 2007

L9 STRUCTURE UPLOADED
L10 32 S L9
L11 1585 S L9 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:54:48 ON 13 MAR 2007

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=> s l12 and py<=2002

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10690708.trn

L13 134 L12 AND PY<=2002

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L14 39 L13 AND US/PC

=> s l14 and p/dt
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L15 39 L14 AND P/DT

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L8 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:476237 HCAPLUS

DOCUMENT NUMBER: 145:137256

TITLE: The Discovery of New 11 β -Hydroxysteroid
Dehydrogenase Type 1 Inhibitors by Common Feature
Pharmacophore Modeling and Virtual Screening

AUTHOR(S): Schuster, Daniela; Maurer, Evelyne M.; Laggner,
Christian; Nashev, Lyubomir G.; Wilckens, Thomas;
Langer, Thierry; Odermatt, Alex

CORPORATE SOURCE: Institute of Pharmacy, Department of Pharmaceutical
Chemistry, University of Innsbruck, Innsbruck, 6020,
Austria

SOURCE: Journal of Medicinal Chemistry (2006), 49(12),
3454-3466

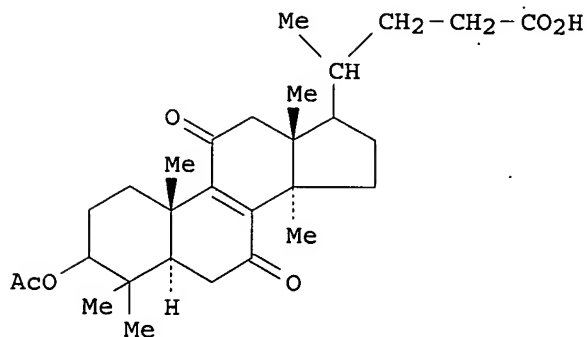
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB 11 β -Hydroxysteroid dehydrogenase (11 β -HSD) enzymes catalyze the conversion of biol. inactive 11-ketosteroids into their active 11 β -hydroxy derivs. and vice versa. Inhibition of 11 β -HSD1 has considerable therapeutic potential for glucocorticoid-associated diseases including obesity, diabetes, wound healing, and muscle atrophy. Because inhibition of related enzymes such as 11 β -HSD2 and 17 β -HSDs causes sodium retention and hypertension or interferes with sex steroid hormone metabolism, resp., highly selective 11 β -HSD1 inhibitors are required for successful therapy. Here, the authors employed the software package Catalyst to develop ligand-based multifeature pharmacophore models for 11 β -HSD1 inhibitors. Virtual screening expts. and subsequent in vitro evaluation of promising hits revealed several selective inhibitors.

Efficient inhibition of recombinant human 11 β -HSD1 in intact transfected cells as well as endogenous enzyme in mouse 3T3-L1 adipocytes and C2C12 myotubes was demonstrated for compound (I), which was able to block subsequent cortisol-dependent activation of glucocorticoid receptors with only minor direct effects on the receptor itself. Our results suggest that inhibitor-based pharmacophore models for 11 β -HSD1 in combination with suitable cell-based activity assays, including such for related enzymes, can be used for the identification of selective and potent inhibitors.

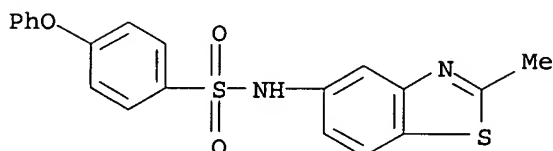
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 686746-70-3 686746-71-4 686746-82-7
 686746-87-2

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(discovery of new hydroxysteroid dehydrogenase inhibitors by common feature pharmacophore modeling and virtual screening)

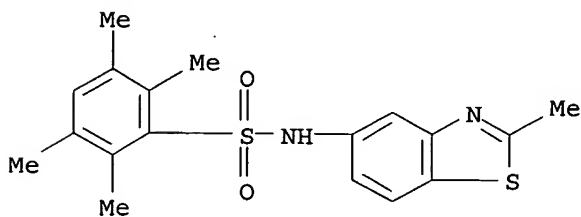
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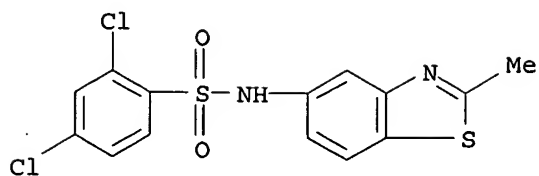
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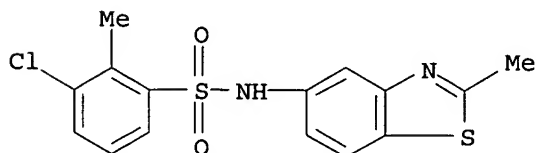
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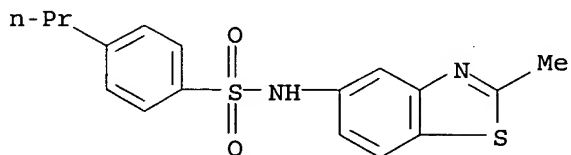
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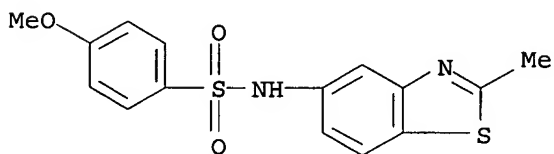
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CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-4-propyl- (9CI) (CA
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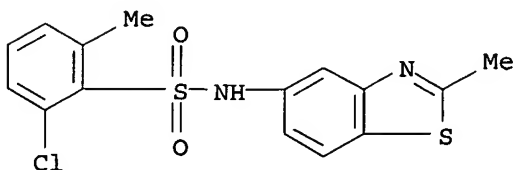
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INDEX NAME)



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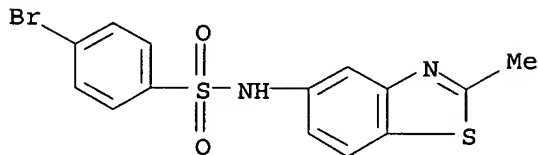
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(CA INDEX NAME)



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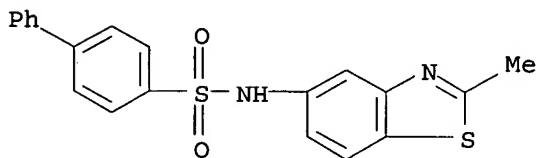
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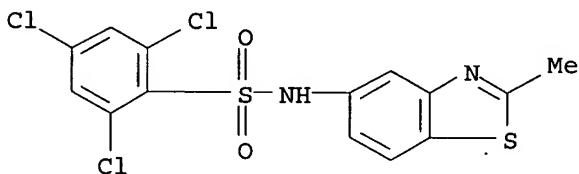
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CN [1,1'-Biphenyl]-4-sulfonamide, N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



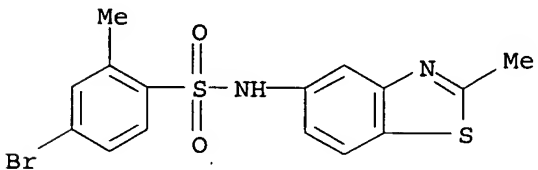
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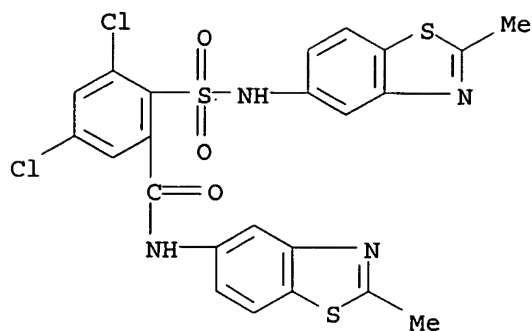
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CN Benzenesulfonamide, 4-bromo-2-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



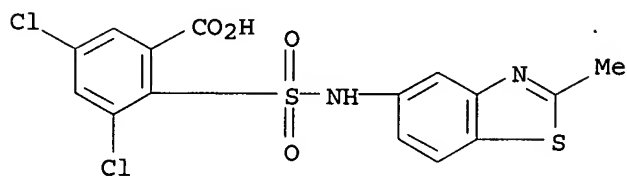
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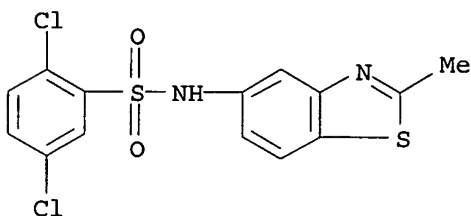
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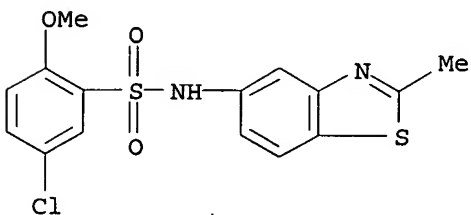
RN 686746-45-2 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



RN 686746-47-4 HCAPLUS

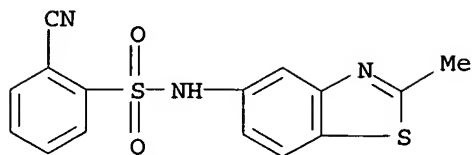
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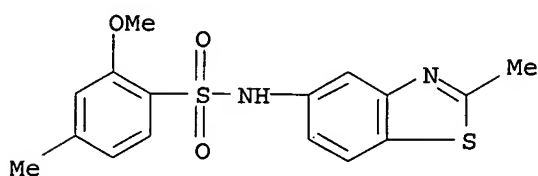
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INDEX NAME)



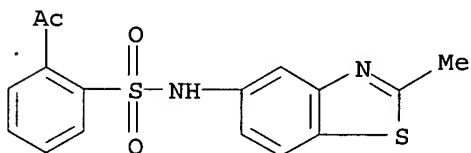
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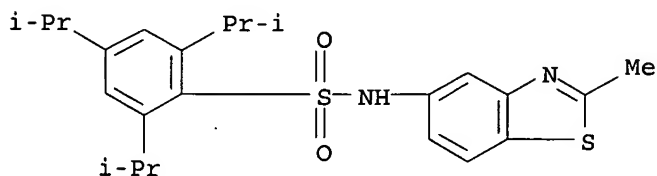
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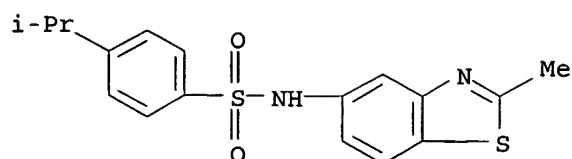
RN 686746-51-0 HCAPLUS

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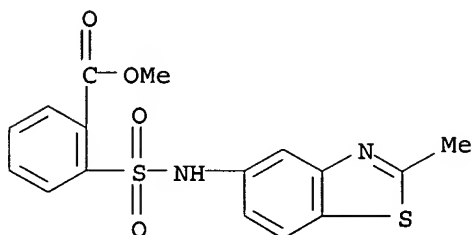
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CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



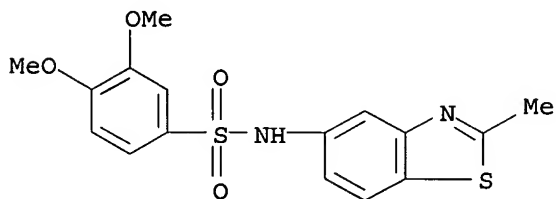
RN 686746-53-2 HCAPLUS

CN Benzoic acid, 2-[[[2-methyl-5-benzothiazolyl)amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



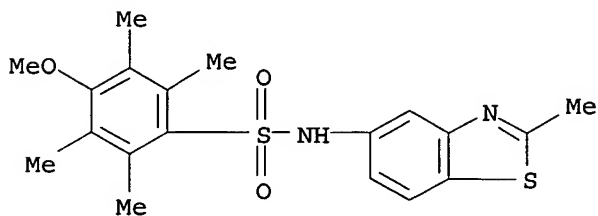
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CN Benzenesulfonamide, 3,4-dimethoxy-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



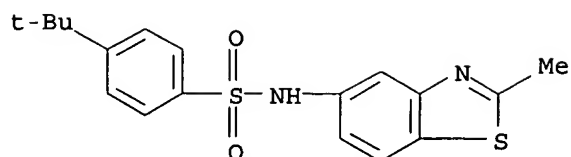
RN 686746-55-4 HCAPLUS

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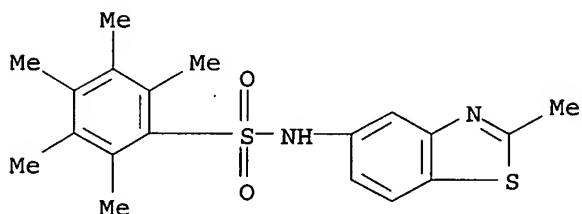


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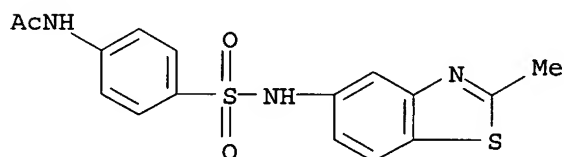
CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



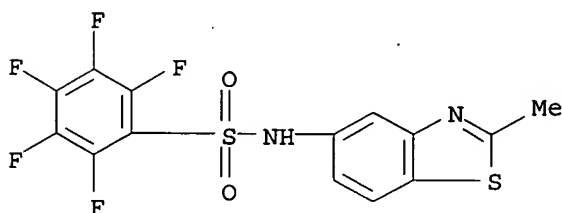
RN 686746-57-6 HCAPLUS
 CN Benzenesulfonamide, 2,3,4,5,6-pentamethyl-N-(2-methyl-5-benzothiazolyl) - (9CI) (CA INDEX NAME)



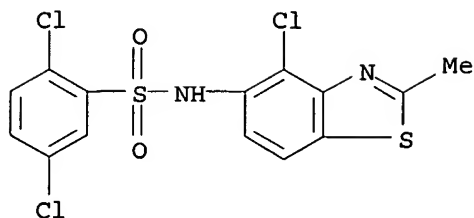
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 CN Acetamide, N-[4-[(2-methyl-5-benzothiazolyl)amino]sulfonyl]phenyl] - (9CI) (CA INDEX NAME)



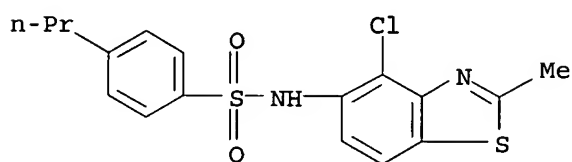
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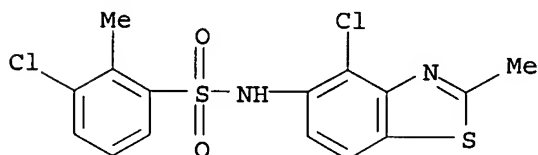
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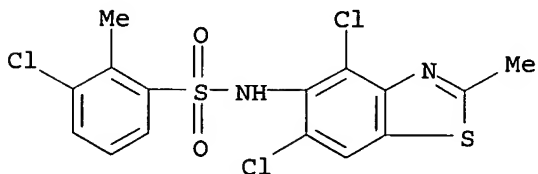
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 CN Benzenesulfonamide, N-(4-chloro-2-methyl-5-benzothiazolyl)-4-propyl- (9CI)
 (CA INDEX NAME)



RN 686746-82-7 HCAPLUS
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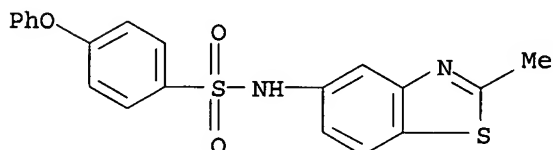
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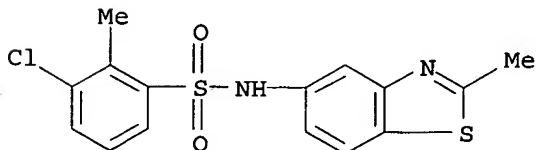
REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:261388 HCAPLUS
 DOCUMENT NUMBER: 144:460298
 TITLE: Benzothiazole derivatives as novel inhibitors of human 11 β -hydroxysteroid dehydrogenase type 1
 AUTHOR(S): Su, Xiangdong; Vicker, Nigel; Ganeshapillai, Dharshini; Smith, Andrew; Purohit, Atul; Reed, Michael

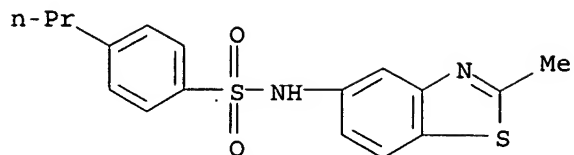
J.; Potter, Barry V. L.
CORPORATE SOURCE: Medicinal Chemistry, Department of Pharmacy and
Pharmacology and Sterix Ltd., University of Bath,
Bath, BA2 7AY, UK
SOURCE: Molecular and Cellular Endocrinology (2006), 248(1-2),
214-217
CODEN: MCEND6; ISSN: 0303-7207
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Selective inhibitors of 11 β -hydroxysteroid dehydrogenase type 1
(11 β -HSD1) have considerable potential as treatments for metabolic
diseases, such as diabetes mellitus type 2 or obesity. Here, we report
the discovery and synthesis of a series of novel benzothiazole derivs. and
their inhibitory activities against 11 β -HSD1 from human hepatic
microsomes measured using a RIA method. The benzothiazole derivs. 1 and 2
showed greater than 80% inhibition for 11 β -HSD1 at 10 μ M and
exhibited IC50 values in the low micromolar range. The preliminary SAR
study suggested the introduction of a chlorine substituent at the 4
position of the benzothiazole ring greatly enhanced the inhibitory
activities. Docking studies with the benzothiazole derivative 1 into the
crystal structure of human 11 β -HSD1 revealed how the mol. may
interact with the enzyme and cofactor.
IT 670272-62-5 686746-31-6 686746-32-7
686746-38-3 686746-40-7 686746-45-2
686746-70-3 686746-71-4 686746-82-7
886839-51-6
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(benzothiazole derivs. as inhibitors of human 11 β -hydroxysteroid
dehydrogenase type 1)
RN 670272-62-5 HCAPLUS
CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-4-phenoxy- (9CI) (CA
INDEX NAME)



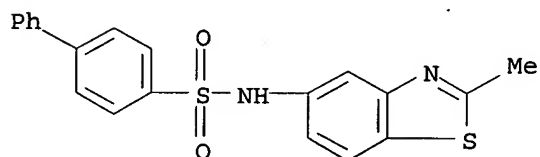
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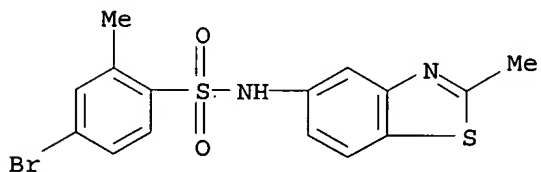
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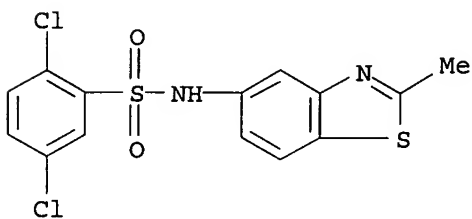
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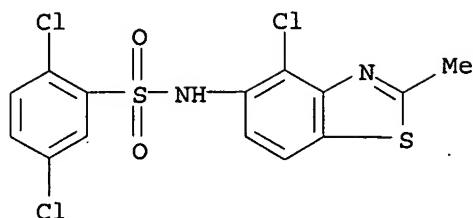
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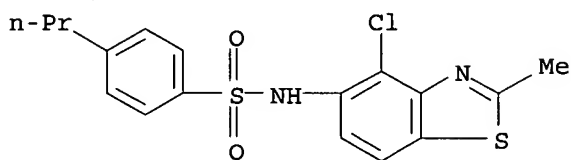
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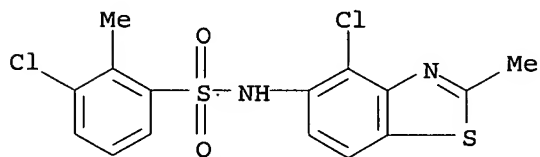
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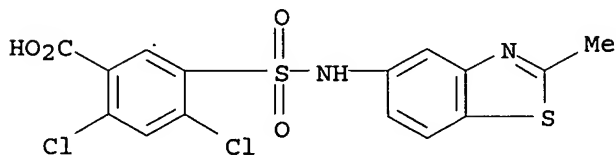
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 CN Benzenesulfonamide, N-(4-chloro-2-methyl-5-benzothiazolyl)-4-propyl- (9CI)
 (CA INDEX NAME)



RN 686746-82-7 HCAPLUS
 CN Benzenesulfonamide, 3-chloro-N-(4-chloro-2-methyl-5-benzothiazolyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 886839-51-6 HCAPLUS
 CN Benzoic acid, 2,4-dichloro-5-[[2-methyl-5-benzothiazolyl)amino]sulfonyl]- (9CI) (CA INDEX NAME)

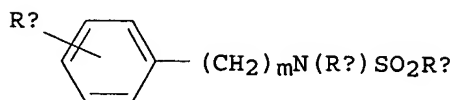


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1042213 HCAPLUS
 DOCUMENT NUMBER: 143:326199
 TITLE: Preparation of sulfonamides as inhibitors for collagen receptor integrins for treating thrombosis and cancer
 INVENTOR(S): Smith, David; Marjamaeki, Anne; Ojala, Marika; Pihlavisto, Marjo; Heino, Jyrki; Kaepylae, Jarmo;

Pentikaeinen, Olli; Nyroenen, Tommi; Johnson, Mark;
Huhtala, Mikko
PATENT ASSIGNEE(S): Biotie Therapies Corporation, Finland
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005090297	A1	20050929	WO 2004-FI160	20040319
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004317332	A1	20050929	AU 2004-317332	20040712
CA 2559919	A1	20050929	CA 2004-2559919	20040712
WO 2005090298	A1	20050929	WO 2004-FI447	20040712
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1732884	A1	20061220	EP 2004-742190	20040712
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			WO 2004-FI160	A 20040319
			WO 2004-FI447	W 20040712
OTHER SOURCE(S):			MARPAT 143:326199	
GI				

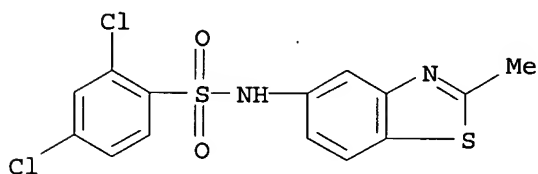


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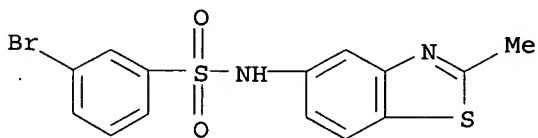
AB The invention relates to sulfonamide derivs. (shown as I; variables defined below; e.g. 2,4-dichloro-N-[4-[(4,6-dimethylpyrimidin-2-yl)(methyl)amino]phenyl]benzenesulfonamide (II)). The invention also relates to the use of I as inhibitors for collagen receptor integrins, particularly $\alpha 2\beta 1$, and a process for preparing I. Methods of preparation are claimed and 37 example preps. are included. For example, II

was prepared from N-(4,6-dimethylpyrimidin-2-yl)-N-methylbenzene-1,4-diamine and 2,4-dichlorobenzenesulfonyl chloride in MeCN in the presence of Et₃N; the resulting mixture of mono- and bis-sulfonamide was separated by column chromatog. and the bis-sulfonamide was hydrolyzed using NaOEt/EtOH to give more monosulfonamide. For I: R_c is an (un)substituted 4-6-membered heterocyclic ring containing ≥1 N atoms, or R_c is -NR₁R₂, where R₁ is H or alkyl, R₂ is alkyl or an (un)substituted 4-6-membered heterocyclic ring containing ≥1 N atoms, or R₁ and R₂ taken together with the N atom to which they are attached form a heterocyclic group, which may contain ≥1 addnl. heteroatoms = O and N and which may be substituted, or R₁ and R₂ are absent and the N atom together with the adjacent C atom forms a heterocyclic ring, which may contain ≥1 addnl. heteroatoms = N and S and which may be substituted; R_A is -(CH:CH)_nQ (Q = R₃- and R₄-substituted naphthalen-2-yl, thien-2-yl, Ph (n = 0-1; R₃ and R₄ = H, halogen, aryl, alkoxy, carboxy, hydroxy, alkoxyalkyl, alkoxycarbonyl, cyano, trifluoromethyl, alkanoylamino, trifluoromethoxy, an (un)substituted aryl or heterocyclic)); m = 0, 1 (defined other than in claims); R_B = H, alkyl (defined other than in claims).

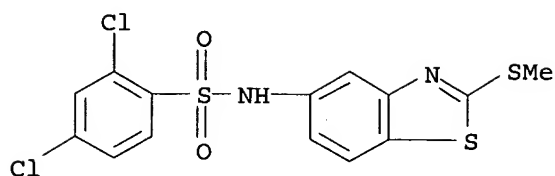
IT 686746-30-5P, 2,4-Dichloro-N-(2-methyl-1,3-benzothiazol-5-yl)benzenesulfonamide 865375-73-1P, 3-Bromo-N-(2-methylbenzothiazol-5-yl)benzenesulfonamide 865376-19-8P, 2,4-Dichloro-N-(2-methylthiobenzothiazol-5-yl)benzenesulfonamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of sulfonamides as inhibitors for collagen receptor integrins for treating thrombosis and cancer)
 RN 686746-30-5 HCAPLUS
 CN Benzenesulfonamide, 2,4-dichloro-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



RN 865375-73-1 HCAPLUS
 CN Benzenesulfonamide, 3-bromo-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



RN 865376-19-8 HCAPLUS
 CN Benzenesulfonamide, 2,4-dichloro-N-[2-(methylthio)-5-benzothiazolyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:904114 HCAPLUS

DOCUMENT NUMBER: 141:386306

TITLE: Color molecule-releasing compound, silver halide photosensitive material, color filter, and manufacture thereof

INVENTOR(S): Makuta, Toshiyuki; Takahashi, Osamu; Mizukawa, Hiroki; Ishiwata, Yasuhiro

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 61 pp.

CODEN: JKXXAF

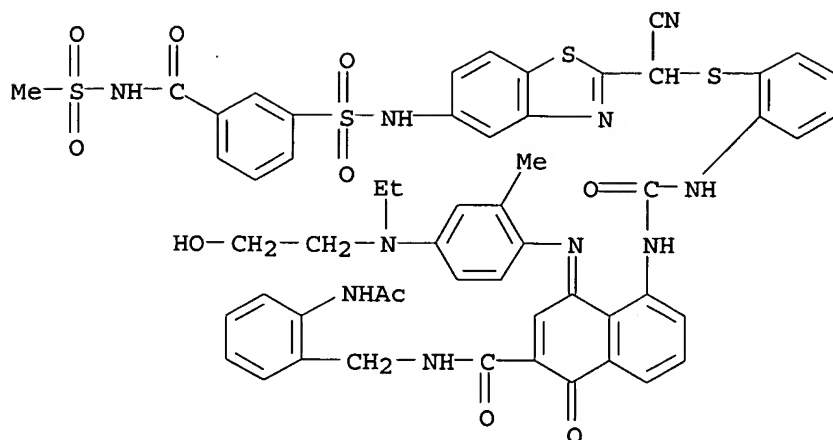
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004300331	A	20041028	JP 2003-96681	20030331
PRIORITY APPLN. INFO.:			JP 2003-96681	20030331
AB Disclosed is the color mol.-releasing compound capable of releasing a water-insol. color mol. upon the coupling reaction with an oxidized developing agent, wherein the compound is water insol. at pH≤9 and water soluble at pH≥10. The compound is represented by (SOL-Cp)-[L-Dye]n (SOL-Cp = coupler residue; L = divalent bonding group; Dye = hydrophilic or oleophilic dye residue; and n = integer ≥1).				
IT 784179-51-7				
RL: NUU (Other use, unclassified); USES (Uses) (color mol.-releasing compound in silver halide photog. emulsion used for manufacture of color filter)				
RN 784179-51-7 HCAPLUS				
CN 2-Naphthalenecarboxamide, N-[[2-(acetylamino)phenyl]methyl]-5-[[[2-[[[cyano[5-[[[3-[[[(methylsulfonyl)amino]carbonyl]phenyl]sulfonyl]amino]-2-benzothiazolyl]methyl]thio]phenyl]amino]carbonyl]amino]-4-[[4-[ethyl(2-hydroxyethyl)amino]-2-methylphenyl]imino]-1,4-dihydro-1-oxo- (9CI) (CA INDEX NAME)				



L8 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:368925 HCAPLUS

DOCUMENT NUMBER: 140:391280

TITLE: Preparation of arylsulfonylbenzazoles as inhibitors of 11- β -hydroxy steroid dehydrogenase type 1 and type 2.

INVENTOR(S): Vicker, Nigel; Su, Xiangdong; Ganeshapillai, Dharshini; Purohit, Atul; Reed, Michael John; Potter, Barry Victor Lloyd

PATENT ASSIGNEE(S): Sterix Limited, UK

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

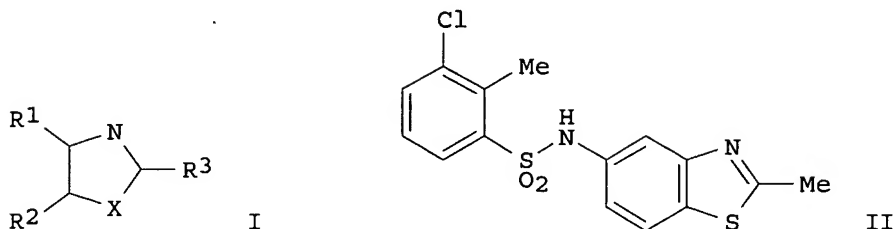
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037251	A1	20040506	WO 2003-GB4590	20031023
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2501228	A1	20040506	CA 2003-2501228	20031023
AU 2003274373	A1	20040513	AU 2003-274373	20031023
US 2004143124	A1	20040722	US 2003-690708	20031023
EP 1556040	A1	20050727	EP 2003-758357	20031023
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003015605	A	20050830	BR 2003-15605	20031023
CN 1723022	A	20060118	CN 2003-80105509	20031023
JP 2006514614	T	20060511	JP 2004-546183	20031023
NO 2005002469	A	20050722	NO 2005-2469	20050523

PRIORITY APPLN. INFO.:

GB 2002-24830
 US 2002-436635P
 WO 2003-GB4590

A 20021024
 P 20021230
 W 20031023

OTHER SOURCE(S): MARPAT 140:391280
 GI



AB Title compds. [I; 1 of R1, R2 = R5SO₂N(R4)L; R4 = H, hydrocarbyl; R5 = hydrocarbyl; L = optional linker group; R1R2 = atoms form a ring; X = S, O, NR6, C(R7)(R8); R6-R8 = H, hydrocarbyl], were prepared. Thus, title compound (II) inhibited 11 β -HSD1 with IC₅₀ = 6.6 μ M.

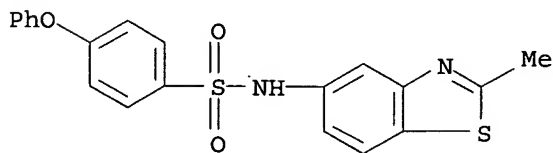
IT 670272-62-5P 671200-96-7P 686746-30-5P
 686746-31-6P 686746-32-7P 686746-33-8P
 686746-34-9P 686746-37-2P 686746-38-3P
 686746-39-4P 686746-40-7P 686746-41-8P
 686746-44-1P 686746-45-2P 686746-47-4P
 686746-48-5P 686746-49-6P 686746-50-9P
 686746-51-0P 686746-52-1P 686746-53-2P
 686746-54-3P 686746-55-4P 686746-56-5P
 686746-57-6P 686746-58-7P 686746-59-8P
 686746-70-3P 686746-71-4P 686746-82-7P
 686746-87-2P 686747-08-0P 686747-10-4P
 686747-11-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of indoles, benzothiazoles, benzoxazoles, and benzimidazoles as inhibitors of hydroxy steroid dehydrogenase)

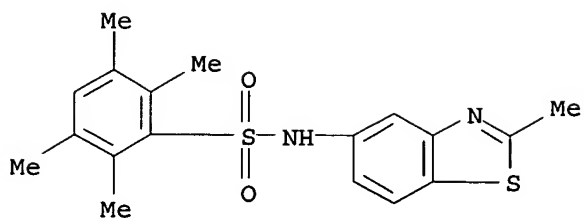
RN 670272-62-5 HCAPLUS

CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-4-phenoxy- (9CI) (CA INDEX NAME)

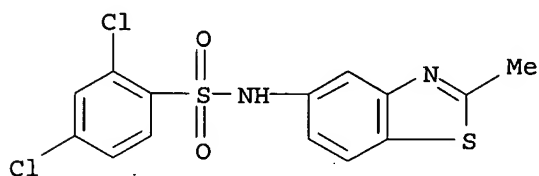


RN 671200-96-7 HCAPLUS

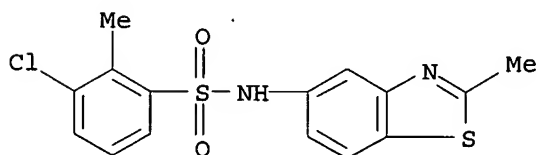
CN Benzenesulfonamide, 2,3,5,6-tetramethyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



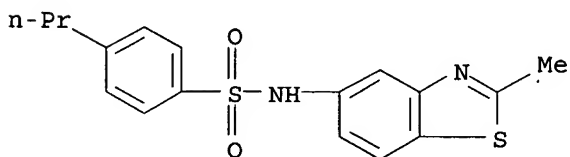
RN 686746-30-5 HCAPLUS
 CN Benzenesulfonamide, 2,4-dichloro-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



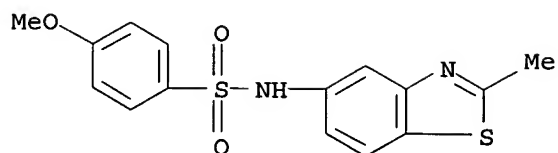
RN 686746-31-6 HCAPLUS
 CN Benzenesulfonamide, 3-chloro-2-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



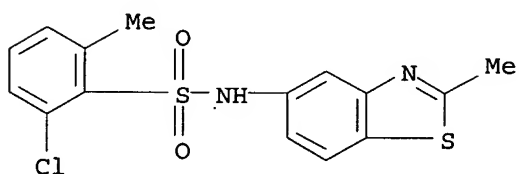
RN 686746-32-7 HCAPLUS
 CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-4-propyl- (9CI) (CA INDEX NAME)



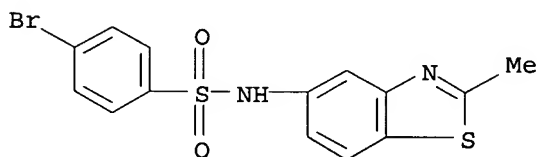
RN 686746-33-8 HCAPLUS
 CN Benzenesulfonamide, 4-methoxy-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



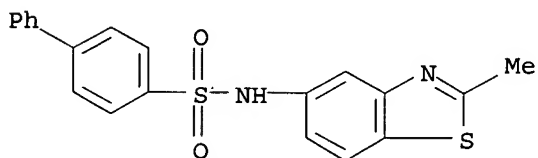
RN 686746-34-9 HCAPLUS
 CN Benzenesulfonamide, 2-chloro-6-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI)
 (CA INDEX NAME)



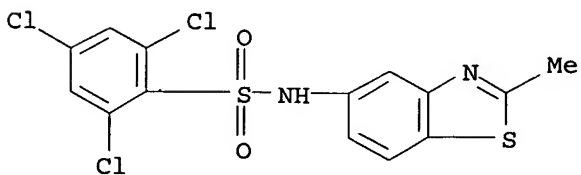
RN 686746-37-2 HCAPLUS
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 INDEX NAME)



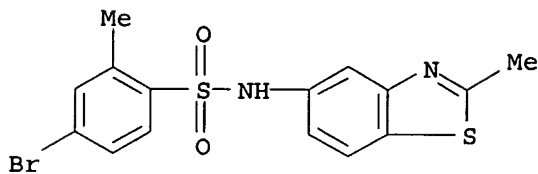
RN 686746-38-3 HCAPLUS
 CN [1,1'-Biphenyl]-4-sulfonamide, N-(2-methyl-5-benzothiazolyl)- (9CI) (CA
 INDEX NAME)



RN 686746-39-4 HCAPLUS
 CN Benzenesulfonamide, 2,4,6-trichloro-N-(2-methyl-5-benzothiazolyl)- (9CI)
 (CA INDEX NAME)

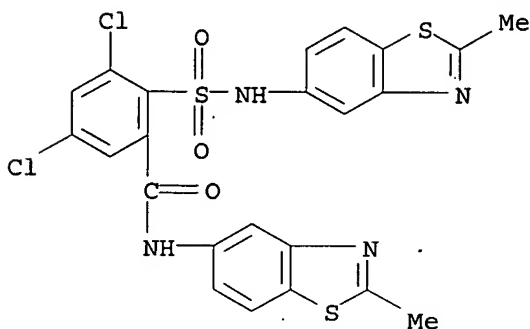


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CN Benzenesulfonamide, 4-bromo-2-methyl-N-(2-methyl-5-benzothiazolyl)- (9CI)
(CA INDEX NAME)

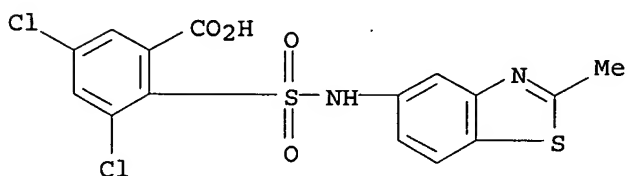
RN 686746-41-8 HCAPLUS

CN Benzamide, 3,5-dichloro-N-(2-methyl-5-benzothiazolyl)-2-[[2-methyl-5-benzothiazolyl)amino]sulfonyl]- (9CI) (CA INDEX NAME)



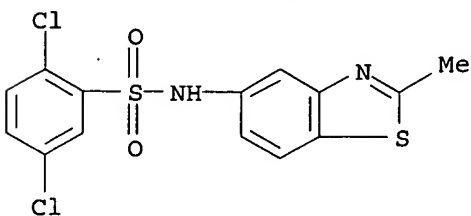
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CN Benzoic acid, 3,5-dichloro-2-[[2-methyl-5-benzothiazolyl)amino]sulfonyl]- (9CI) (CA INDEX NAME)



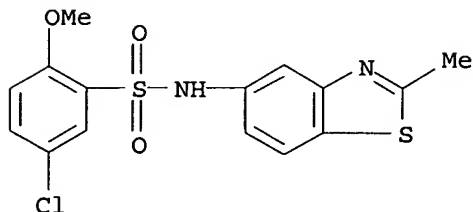
RN 686746-45-2 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



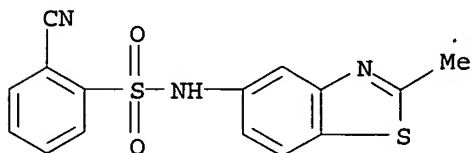
RN 686746-47-4 HCAPLUS

CN Benzenesulfonamide, 5-chloro-2-methoxy-N-(2-methyl-5-benzothiazolyl) - (9CI) (CA INDEX NAME)



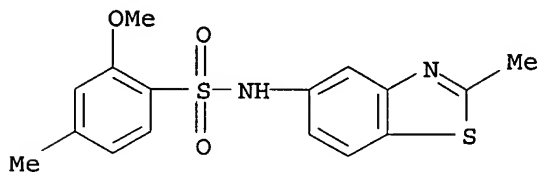
RN 686746-48-5 HCAPLUS

CN Benzenesulfonamide, 2-cyano-N-(2-methyl-5-benzothiazolyl) - (9CI) (CA INDEX NAME)



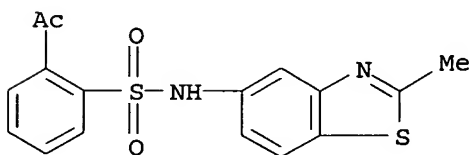
RN 686746-49-6 HCAPLUS

CN Benzenesulfonamide, 2-methoxy-4-methyl-N-(2-methyl-5-benzothiazolyl) - (9CI) (CA INDEX NAME)



RN 686746-50-9 HCAPLUS

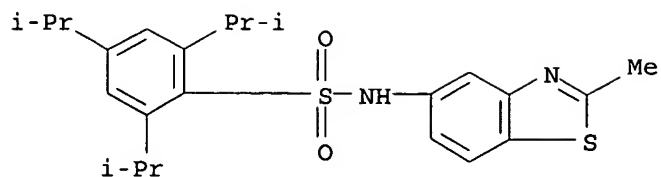
CN Benzenesulfonamide, 2-acetyl-N-(2-methyl-5-benzothiazolyl) - (9CI) (CA INDEX NAME)



RN 686746-51-0 HCAPLUS

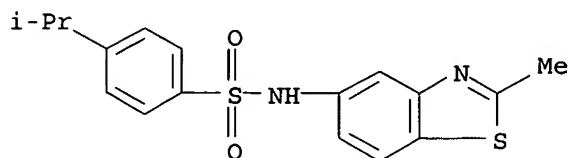
CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-2,4,6-tris(1-methylethyl) - (9CI) (CA INDEX NAME)

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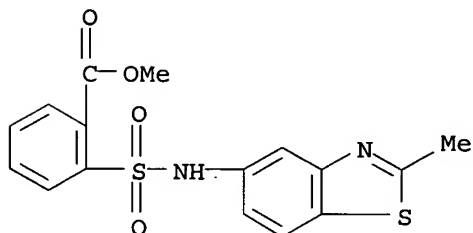
RN 686746-52-1 HCAPLUS

CN Benzenesulfonamide, N-(2-methyl-5-benzothiazolyl)-4-(1-methylethyl)- (9CI)
(CA INDEX NAME)



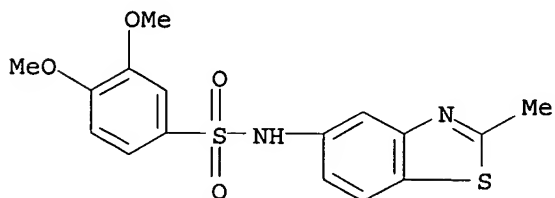
RN 686746-53-2 HCAPLUS

CN Benzoic acid, 2-[[(2-methyl-5-benzothiazolyl) amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



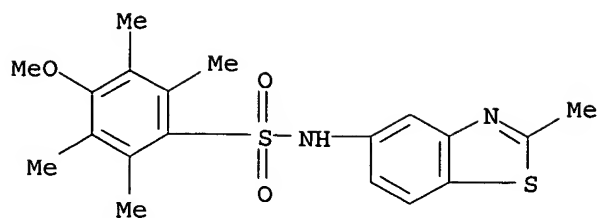
RN 686746-54-3 HCAPLUS

CN Benzenesulfonamide, 3,4-dimethoxy-N-(2-methyl-5-benzothiazolyl)- (9CI)
(CA INDEX NAME)

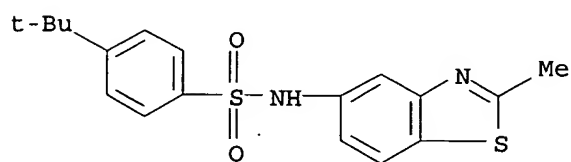


RN 686746-55-4 HCAPLUS

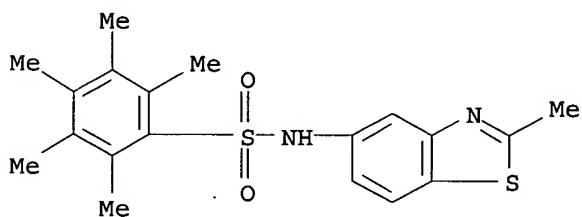
CN Benzenesulfonamide, 4-methoxy-2,3,5,6-tetramethyl-N-(2-methyl-5-benzothiazolyl)- (9CI) (CA INDEX NAME)



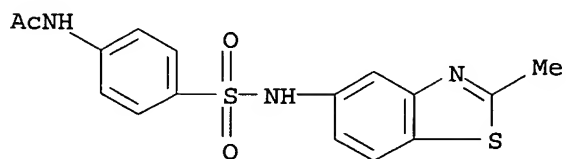
RN 686746-56-5 HCAPLUS
 CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-(2-methyl-5-benzothiazolyl)-
 (9CI) (CA INDEX NAME)



RN 686746-57-6 HCAPLUS
 CN Benzenesulfonamide, 2,3,4,5,6-pentamethyl-N-(2-methyl-5-benzothiazolyl)-
 (9CI) (CA INDEX NAME)

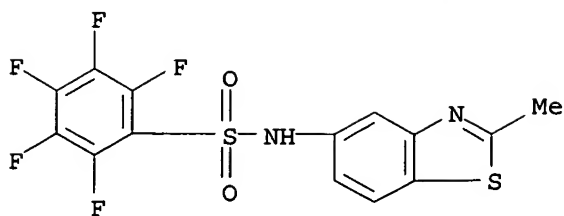


RN 686746-58-7 HCAPLUS
 CN Acetamide, N-[4-[[2-methyl-5-benzothiazolyl)amino]sulfonyl]phenyl]- (9CI)
 (CA INDEX NAME)



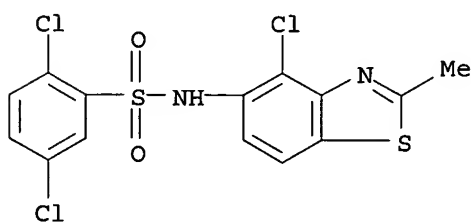
RN 686746-59-8 HCAPLUS
 CN Benzenesulfonamide, 2,3,4,5,6-pentafluoro-N-(2-methyl-5-benzothiazolyl)-
 (9CI) (CA INDEX NAME)

10690708.trn



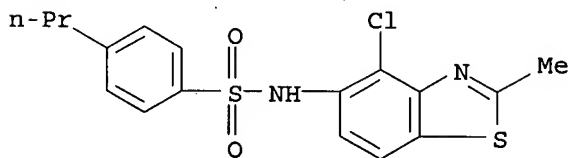
RN 686746-70-3 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-(4-chloro-2-methyl-5-benzothiazolyl)-
(9CI) (CA INDEX NAME)



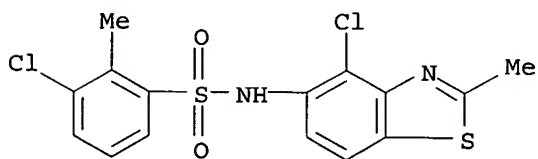
RN 686746-71-4 HCAPLUS

CN Benzenesulfonamide, N-(4-chloro-2-methyl-5-benzothiazolyl)-4-propyl- (9CI)
(CA INDEX NAME)



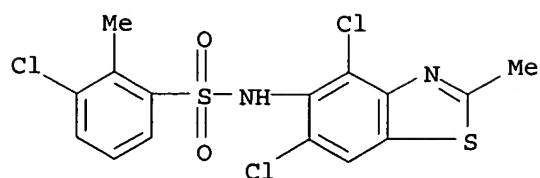
RN 686746-82-7 HCAPLUS

CN Benzenesulfonamide, 3-chloro-N-(4-chloro-2-methyl-5-benzothiazolyl)-2-methyl- (9CI) (CA INDEX NAME)

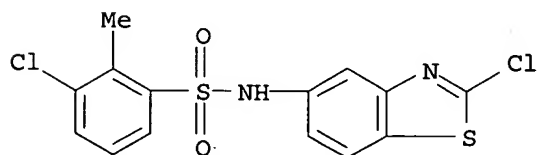


RN 686746-87-2 HCAPLUS

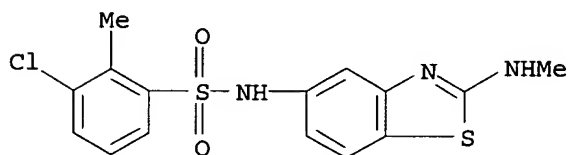
CN Benzenesulfonamide, 3-chloro-N-(4,6-dichloro-2-methyl-5-benzothiazolyl)-2-methyl- (9CI) (CA INDEX NAME)



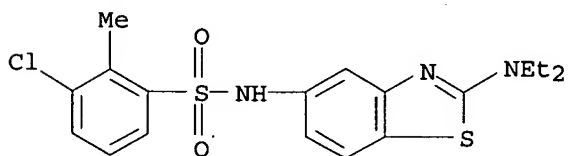
RN 686747-08-0 HCAPLUS
 CN Benzenesulfonamide, 3-chloro-N-(2-chloro-5-methylbenzothiazolyl)-2-methyl- (9CI)
 (CA INDEX NAME)



RN 686747-10-4 HCAPLUS
 CN Benzenesulfonamide, 3-chloro-2-methyl-N-[2-(methylamino)-5-benzothiazolyl]- (9CI) (CA INDEX NAME)



RN 686747-11-5 HCAPLUS
 CN Benzenesulfonamide, 3-chloro-N-[2-(diethylamino)-5-benzothiazolyl]-2-methyl- (9CI) (CA INDEX NAME)

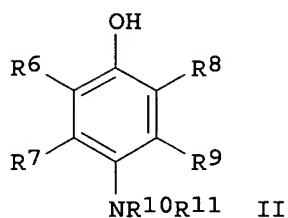
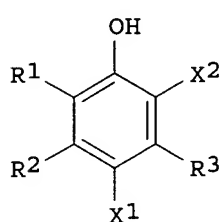


L8 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:686578 HCAPLUS
 DOCUMENT NUMBER: 133:259388
 TITLE: Heat development photosensitive material for printing
 platemaking
 INVENTOR(S): Ezoe, Toshihide; Taniguchi, Masahiko
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000267222	A	20000929	JP 1999-73951	19990318
PRIORITY APPLN. INFO.:			JP 1999-73951	19990318
OTHER SOURCE(S):	MARPAT 133:259388			
GI				



AB The title photosensitive material, containing a photosensitive Ag halide, a reducible Ag salt, a reducing agent, a binder, a nucleating agent, and a phenolic compound I or II [R1-3, R6-9, X1, X2 = H, halo, substituent linking to the benzene ring by C, O, N, S or P atom, ≥ 1 of X1 and X2 is NR4R5; R4, R5, R10. R11 = H, alkyl, alkenyl, alkynyl, aryl, heterocyclic group, COR, COCOR, SO2R, SOR, POR2, C(:NR')R; R, R' = H, alkyl, aryl, heterocyclic group, amino, alkoxy, aryloxy (the adjacent groups in these groups may link each other to form a ring)] on ≥ 1 side of the same surfaces of a support, contains ≥ 1 selected from a compound X1JnB1 (X1 = residue of a photog. inhibitor having a N-containing heterocycle; J = divalent linking group; B1 = ballast; $n \geq 1$), a polymer having a repeating unit derived from a monomer QX2 (Q = ethylenic unsatd. group, ethylenic unsatd. group- containing group; X2 = residue of photog. inhibitor having a N-containing heterocycle), and compound A1X3 (A1 = water-soluble group-containing group; X3 = residue of a photog. inhibitor having a

N-containing heterocycle). The material shows super-high contrast and little variation in Dmax upon storage and is suited for photomech. process.

IT 212572-28-6
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
 (photothermog. material containing development inhibitor and phenolic compound development accelerator)

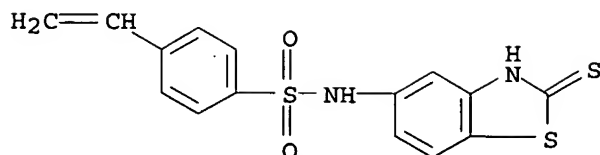
RN 212572-28-6 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with N-(2,3-dihydro-2-thioxo-5-benzothiazolyl)-4-ethenylbenzenesulfonamide (9CI) (CA INDEX NAME)

CM 1

CRN 212572-27-5

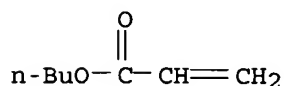
CMF C15 H12 N2 O2 S3



CM 2

CRN 141-32-2

CMF C7 H12 O2



L8 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:555880 HCAPLUS

DOCUMENT NUMBER: 129:237713

TITLE: Thermographic black and white photographic material with high contrast and fog resistance and image-forming method using it

INVENTOR(S): Yamada, Taketoshi; Komamura, Tawara

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10228077	A	19980825	JP 1997-31939	19970217
PRIORITY APPLN. INFO.:			JP 1997-31939	19970217

AB The material contains at least a binder, a Ag halide, an organic Ag salt, a hydrazine derivative, and one of the following compds. (1) X1JnB (X1 = residue of a photog. fog inhibitor with N-containing heterocyclic ring; J = bivalent linking group; B = ballast group; n ≥ 1); (2) a polymer containing QX2 (Q = ethylenically unsatd. group; group having an ethylenically unsatd. group; X2 = X1); (3) AX3 (A = water-soluble group; X3 = X1). A black and white image is formed by developing the material for 1-180 s. The material shows high contrast, improved storage stability for a long time, and less fogging of an unexposed area after development.

IT 212572-28-6

RL: TEM (Technical or engineered material use); USES (Uses)
(fog inhibitor; thermog. black and white organic silver salt photog. material containing fog inhibitor)

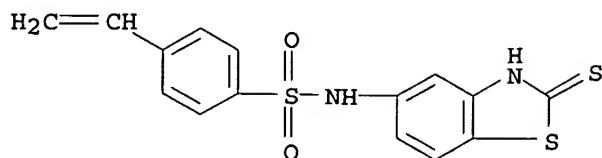
RN 212572-28-6 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with N-(2,3-dihydro-2-thioxo-5-benzothiazolyl)-4-ethenylbenzenesulfonamide (9CI) (CA INDEX NAME)

CM 1

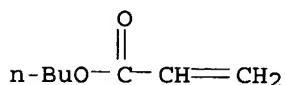
10690708.trn

CRN 212572-27-5
CMF C15 H12 N2 O2 S3



CM 2

CRN 141-32-2
CMF C7 H12 O2



L8 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1962:469757 HCAPLUS

DOCUMENT NUMBER: 57:69757

ORIGINAL REFERENCE NO.: 57:13924f-i,13925a-f

TITLE: Azomethine dyes. IV. Indoaniline dyes derived from heterocyclic N-substituted 1-hydroxy-2-naphthamides
AUTHOR(S): Portnaya, B. S.; Bobkova, T. P.; Krashenninnikova, M. V.; Chel'tsov, V. S.; Levkoev, I. I.

SOURCE: Ts. Vses. Nauchn.-Issled. Kinofotoinst. (1960), (No. 40), 106-18

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB cf. CA 51, 5022i; 52, 15505e. N-Thiazolyl- and -benzothiazolyl derivs. of 1-hydroxy-2-naphthamide (Ia) were prepared and converted to indoaniline dyes. A mixture of 4.08 g. p-MeC₆H₄SO₂Cl, 3.28 g. 2-methyl-5-aminobenzothiazole, and 16 ml. C₅H₅N heated 90 min. on a steam bath, cooled, and treated with 200 ml. H₂O and 25 ml. concentrated HCl gave 5.2 g. (91%) of 2-methyl-5-p-toluenesulfonamidobenzothiazole (I), m. 172-30 (alc.). A solution of 12.75 g. I and 3.2 g. KOH in 80 ml. H₂O stirred 30 min. with 10.08 g. Me₂SO₄, and 30 min. with 1.6 g. NaOH in 40 ml. H₂O gave 9.1 g. (68%) N-methyl derivative (II) of I, m. 110-11° (alc.). Refluxing 10 g. II with 120 ml. concentrated HCl 2 hrs., adding 600 ml. H₂O, neutralizing with 30% NaOH, extracting with Et₂O, and evaporating gave 63.5% 2-methyl-5-(N-methylamino)benzothiazole (III), m. 77-80 (petr. ether). Addition of 7.7 g. stearoyl chloride to 4.34 g. 2,5-Br(O₂N)C₆H₃NH₂ and 20 ml. C₅H₅N, refluxing 1 hr., pouring into 80 g. ice and 25 ml. HCl, washing with H₂O, Me₂CO, and Et₂O gave 71% 2,5-Br(O₂N)C₆H₃NHCOC₁₇H₃₅ (IV), m. 115-160 (alc.). Na₂S (4.16 g.) in 25 ml. 50% alc. was added to 4.8 g. IV in 40 ml. alc., refluxed 1.5 hrs., filtered, diluted with 400 ml. H₂O, refiltered, heated 30 min. with 40 ml. concentrated HCl to a crude product.

The

yellow crystals refluxed with 50 ml. 20% HCl and 12 ml. alc. 2 hrs., filtered, extracted with Et₂O, the extract washed with 2% NaOH and H₂O, evaporated,

and the residue chromatographed in C66 through Al2O3 gave 55% of 2-heptadecyl-5-nitrobenzothiazole (V), yellow crystals, m. 57-8° (alc.). Reduction of 4.18 g. V in 32 ml. refluxing alc. with 13.5 g. SnCl2 and 20 ml. concentrated HCl, filtered, basified with 40% NaOH, extracted with

Et2O,

evaporated and recrystd. from alc. gave 74% 2-heptadecyl-5-aminobenzothiazole (VI), m. 67-8°, N-(p-toluenesulfonyl) derivative (VII), 89% light yellow crystals, m.p. 77-80 (MeOH), N-methyl-VII (VIII), 68% light yellow crystals, m. 61-20 (MeOH). Hydrolysis of VIII gave 70% of 1-heptadecyl-5methylaminobenzothiazole (IX), m. 42° (alc.).

Equimolar amts. of 1,2-HOClO₄H₆CO₂Ph and the appropriate amine were heated in vacuo at 135-70°, washed with H₂O and 5% NaHCO₃, and recrystd.

from alc. to give N-substituted derivs. of Ia (substituent, % yield, m.p.): 2-thiazolyl, 40, 230-1°; 4,5-dicarbethoxy-2-thiazolyl, 85, 239-40°; 2benzothiazolyl (X), 60, 244-5°;

5,6-dicarbethoxy-2-benzothiazolyl, 80, 258-6°; 2-methyl-5-benzothiazolyl, 80, 234-5°; 2-methyl-6-benzothiazolyl, 63,

253-4°; 2-heptadecyl-5-benzothiazolyl (XI), 94, 149°. XI

(1.05 g.) and 3.75 ml. concentrated H₂SO₄ shaken 1 hr. at 30-5°, 1 hr. at 40-5°, the viscous mass added to 4 g. NaCl and 10 g. ice, filtered,

and washed with 15% NaCl gave 54% N-(2-heptadecyl-5-benzothiazolyl)-1-hydroxy-4-sulfo-2-naphthamide, m. 249-50° (alc.). A solution of 2.01 g. IX

in 5 ml. C₆H₆ stirred with 1.03 g. 1,2-HOClO₄H₆COCl and 1 ml. PhNMe₂ in 7 ml. C₆H₆ for 6 hrs., extracted with 20 ml. Et₂O, washed with 5% HCl, 3%

Na₂CO₃, and H₂O, dried over Na₂SO₄, evaporated, recrystd. from alc. and twice from MeOH gave 46% N-methyl-N(2-heptadecyl-5-benzothiazolyl)-1-hydroxy-2-

naphthamide, m.p. 52-30; 4-sulfoderiv., 25%, m. 183-5° (3 times

from MeOH). Condensation of the amides with 4-Et₂NC₆H₄NH₂ and ZnCl₂ in alc. gave indoaniline dyes which were chromatographed in C₆H₆ or CHCl₃

solution through Al₂O₃. The following derivs. of XII were obtained (R, R', recrystn. solvent, color, % yield, m.p., λ_{maximum} in MeOH, alc.,

gelatin in mμ): H, 2-thiazolyl, PrOH, green, 25, 184-5°, 708, -,

680; H, 4,5-dicarbethoxy-2-thiazolyl, PrOH, bronze, 25, 165-6°,

729, -, -; H, 2-benzothiazolyl, PrOH, bronze needles, 15, 188°,

721, 722-4°, 690; H, 4, 5-dicarbethoxy-2-benzothiazolyl, BuOH,

green prisms, 12, 202-3°, -, 728, -; H, 2-methyl-5-benzothiazolyl,

BuOH, green prisms, 87, 206-7°, 694, -, 670; Me,

2-methyl-5-benzothiazolyl, MeOH, blue prisms, 11, 160-2°, 645, -,

605; H, 2-methyl-6-benzothiazolyl, PrOH, blue needles, 89,

199-200°, 698, -, 590; H, H -, -, -, -, 692, 690, 680; H,

2-heptadecyl-5-benzothiazolyl, -, -, -, -, -, 690; Me,

2-heptadecyl-5-benzothiazolyl, -, -, -, -, -, 640. The absorption

spectra in gelatin are given.

IT 93733-28-9P, p-Toluenesulfonamide, N-(2-methyl-5-benzothiazolyl)-

96774-24-2P, p-Toluenesulfonamide, N-(2-heptadecyl-5-

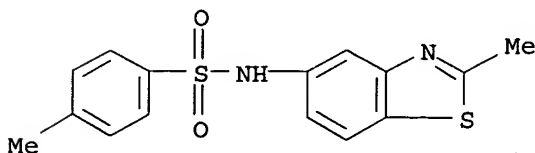
benzothiazolyl)-

RL: PREP (Preparation)

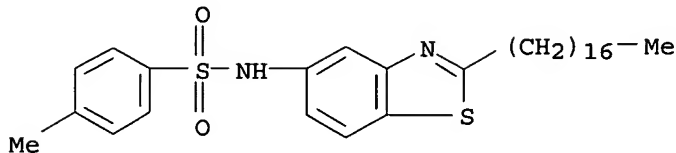
(preparation of)

RN 93733-28-9 HCAPLUS

CN p-Toluenesulfonamide, N-(2-methyl-5-benzothiazolyl)- (7CI) (CA INDEX NAME)



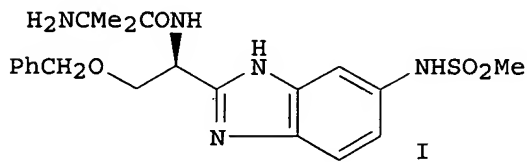
RN 96774-24-2 HCAPLUS
 CN p-Toluenesulfonamide, N-(2-heptadecyl-5-benzothiazolyl)- (7CI) (CA INDEX NAME)



=> d l15 ibib abs hitstr 1-15

L15 ANSWER 1 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2003:150554 HCAPLUS
 DOCUMENT NUMBER: 138:188073
 TITLE: Preparation of dipeptide heterocyclic aromatic compounds as growth hormone secretagogues
 INVENTOR(S): Tino, Joseph A.
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
 SOURCE: U.S., 157 pp., Cont.-in-part of U.S. Ser. No. 506,749, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6525203	B1	20030225	US 2000-662448	20000914 <--
US 6518292	B1	20030211	US 2000-506749	20000218 <--
ZA 2001006854	A	20021120	ZA 2001-6854	20010820 <--
US 6660760	B1	20031209	US 2002-282182	20021028 <--
US 2004002525	A1	20040101	US 2002-281818	20021028 <--
US 6969727	B2	20051129		
US 2004029935	A1	20040212	US 2002-281649	20021028 <--
US 6908938	B2	20050621		
US 2004072881	A1	20040415	US 2002-281848	20021028 <--
US 7053110	B2	20060530		
PRIORITY APPLN. INFO.:			US 1999-124131P	P 19990312
			US 1999-154919P	P 19990921
			US 2000-506749	A2 20000218
OTHER SOURCE(S):			MARPAT 138:188073	
GI				



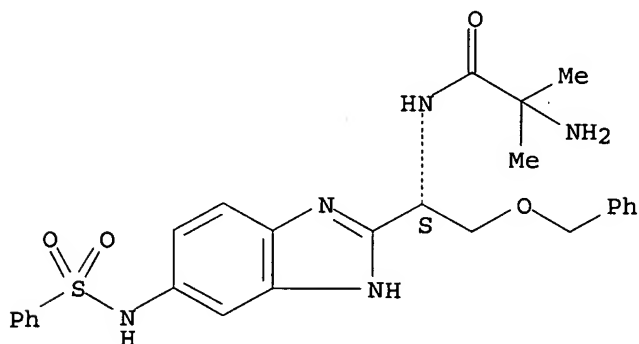
AB R1R1aCXaNR6COYXb [R1 = (un)substituted alkyl, (hetero)aryl(alkyl), etc.; R1a = H or (cyclo)alkyl; R6 = H, (cyclo)alkyl, alkenyl, aryl; Xa = substituted 2-benzoxazolyl, 2-benzothiazolyl, or 2-benzimidazolyl; Xb = (di)(alkyl)amino, (un)substituted imidazolyl; Y = phenylene, (phenylene-interrupted)alkylene, (un)substituted alkylene, aza- or oxaalkylene, or alkenylene] were prepared as growth hormone production and/or release stimulants. Thus, dipeptide benzimidazole derivative I (Boc = tert-butoxycarbonyl) was prepared by a multistep procedure starting from Boc-D-Ser(CH₂Ph)-OH, 4-nitro-o-phenylenediamine, Boc-methylalanine, and MeSO₂Cl.

IT 295335-10-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of dipeptide heterocyclic aromatic compds. as growth hormone secretagogues)

RN 295335-10-3 HCAPLUS

CN Propanamide, 2-amino-2-methyl-N-[(1S)-2-(phenylmethoxy)-1-[5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:814232 HCAPLUS

DOCUMENT NUMBER: 137:326555

TITLE: Azo dye-containing coloring composition for image formation with improved ozone resistance

INVENTOR(S): Fujiwara, Toshiki; Hanaki, Naoyuki; Tanaka, Shigeaki; Omatsu, Tadashi; Yabuki, Yoshiharu

PATENT ASSIGNEE(S): Fujii Photo Film Co., Ltd., Japan

SOURCE: PCT Int. Appl., 256 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083795	A2	20021024	WO 2002-JP3490	20020408 <--
WO 2002083795	A3	20030306		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2002309115	A	20021023	JP 2001-110333	20010409 <--
JP 2002309133	A	20021023	JP 2001-110334	20010409 <--
JP 2002309116	A	20021023	JP 2001-110335	20010409 <--
JP 2003049100	A	20030221	JP 2001-237903	20010806
JP 2003064275	A	20030305	JP 2001-254878	20010824
JP 2002371214	A	20021226	JP 2002-12015	20020121 <--
CA 2439113	A1	20021024	CA 2002-2439113	20020408 <--
EP 1377642	A2	20040107	EP 2002-713302	20020408

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2004089200	A1	20040513	US 2003-471650	20030912 <--
US 7108743	B2	20060919		

PRIORITY APPLN. INFO.:

JP 2001-110333	A	20010409
JP 2001-110334	A	20010409
JP 2001-110335	A	20010409
JP 2001-110457	A	20010409
JP 2001-237903	A	20010806
JP 2001-254878	A	20010824
JP 2002-12015	A	20020121
WO 2002-JP3490	W	20020408

OTHER SOURCE(S): MARPAT 137:326555

AB A coloring composition for image formation comprises an azo dye having an aromatic nitrogen-containing 6-membered heterocyclic ring as a coupling component and which comprises an azo compound having an oxidation potential better than 1.0 V vs.SCE and having at least two substituents having a pKa value of -10 to 5 in water. Improved ozone resistance is obtained with an azo compound showing a maximum absorption at a wavelength between 500 nm and 580 nm with a half-value width of 150 nm or narrower. The dyes may be used in jet ink compns., color filters, color toners, etc. In an example, 2-amino-4,5-dicyano-1-(ethoxycarbonylmethyl)imidazole-2,6-bis(octylanilino)-4-methylpyridine was prepared as an azo dye (λ_{\max} 528 nm in DMF).

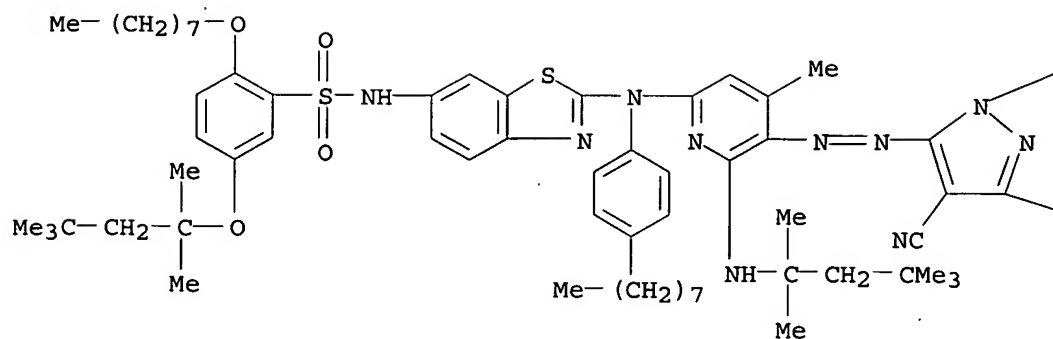
IT 473465-65-5 473555-05-4

RL: TEM (Technical or engineered material use); USES (Uses)
(dye; azo dye-containing coloring compns. for image formation with improved ozone resistance)

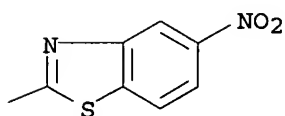
RN 473465-65-5 HCAPLUS

CN Benzenesulfonamide, N-[2-[[5-[[4-cyano-3-(1,1-dimethylethyl)-1-(5-nitro-2-benzothiazolyl)-1H-pyrazol-5-yl]azo]-4-methyl-6-[(1,1,3,3-tetramethylbutyl)amino]-2-pyridinyl](4-octylphenyl)amino]-6-benzothiazolyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutoxy)- (9CI) (CA INDEX NAME)

PAGE 1-A



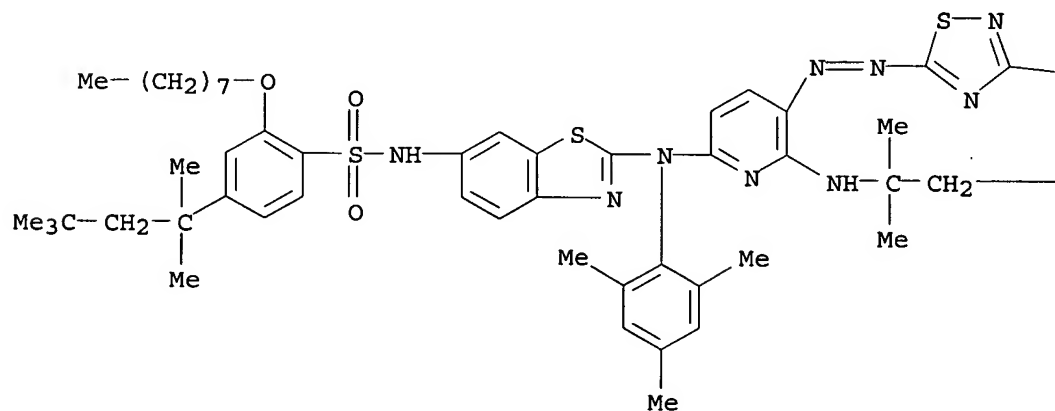
PAGE 1-B



Bu-t

RN 473555-05-4 HCAPLUS
 CN Benzenesulfonamide, 2-(octyloxy)-N-[2-[[5-[(3-phenyl-1,2,4-thiadiazol-5-yl)azo]-6-[(1,1,3,3-tetramethylbutyl)amino]-2-pyridinyl](2,4,6-trimethylphenyl)amino]-6-benzothiazolyl]-4-(1,1,3,3-tetramethylbutyl)-(9CI) (CA INDEX NAME)

PAGE 1-A

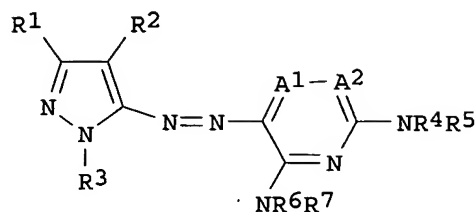


Ph

CMe₃

L15 ANSWER 3 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:814122 HCAPLUS
 DOCUMENT NUMBER: 137:326554
 TITLE: Pyrazole azo dyes, their production and coupling agents therefor
 INVENTOR(S): Fujiwara, Toshiki; Hanaki, Naoyuki; Tanaka, Shigeaki; Omatsu, Tadashi; Yabuki, Yoshiharu
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 137 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083662	A2	20021024	WO 2002-JP3491	20020408 <--
WO 2002083662	A3	20030306		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2002322151	A	20021108	JP 2001-126239	20010424 <--
JP 2002371079	A	20021226	JP 2002-12108	20020121 <--
EP 1377640	A2	20040107	EP 2002-708777	20020408
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
CN 1501962	A	20040602	CN 2002-808009	20020408
US 2004122219	A1	20040624	US 2003-473419	20030930 <--
US 7109336	B2	20060919		
PRIORITY APPLN. INFO.:			JP 2001-110458	A 20010409
			JP 2001-126239	A 20010424
			JP 2002-12108	A 20020121
			WO 2002-JP3491	W 20020408
OTHER SOURCE(S):	MARPAT 137:326554			
GI				



AB Aminopyrazole diazo component-based azo dyes (I; A1, A2 = N, optionally substituted -CH=; R1 = H, organic group; R2 = H, halogen, CN; R3 = H, organic group; R4, R5, R6, R7 = H, organic group, carboxy, sulfo, carbamoyl) are obtained from novel diamino heterocyclic coupling components. I are suitable for image formation and recording and have excellent ozone resistance. In an example, 5-amino-3-tert-butyl-4-cyanopyrazole was diazotized and coupled with 3-cyano-4-methyl-2,6-bis(p-octylanilino)pyridine and the product was condensed with 2-chlorobenzothiazole to give a dye (λ_{max} 545 nm in DMF).

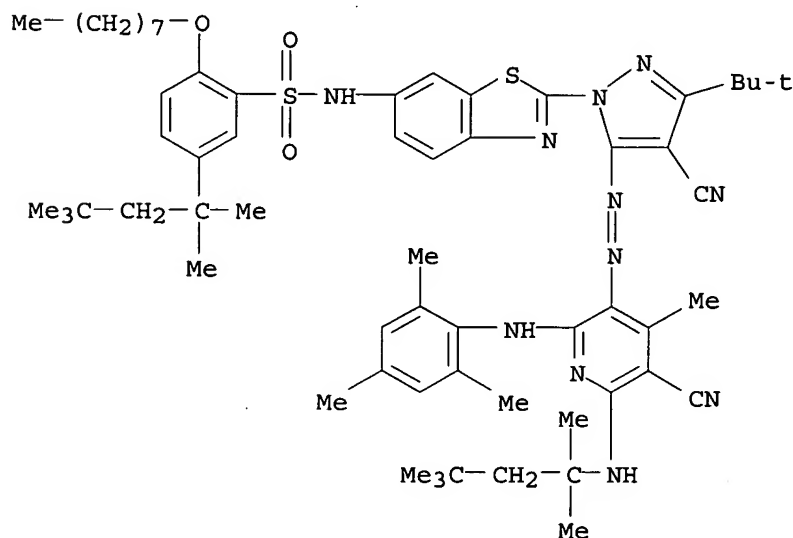
IT 473465-24-6P 473465-65-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye; production of pyrazole azo dyes for image formation and recording)

RN 473465-24-6 HCAPLUS

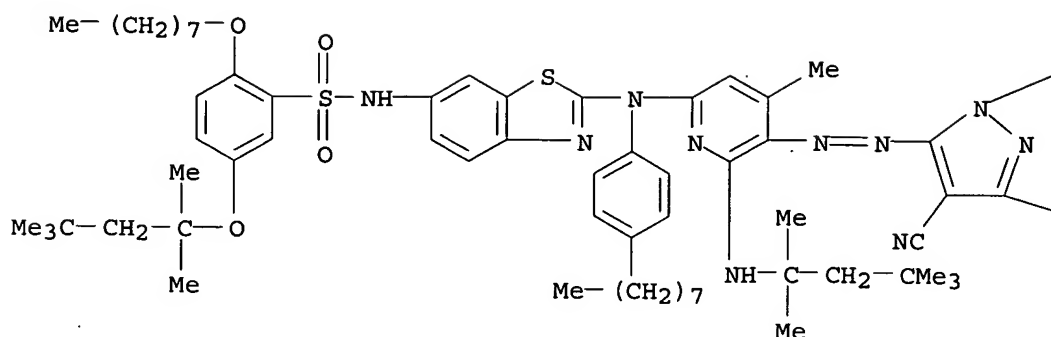
CN Benzenesulfonamide, N-[2-[4-cyano-5-[5-cyano-4-methyl-6-[(1,1,3,3-tetramethylbutyl)amino]-2-[(2,4,6-trimethylphenyl)amino]-3-pyridinyl]azo]-3-(1,1-dimethylethyl)-1H-pyrazol-1-yl]-6-benzothiazolyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



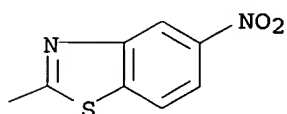
RN 473465-65-5 HCAPLUS

CN Benzenesulfonamide, N-[2-[5-[4-cyano-3-(1,1-dimethylethyl)-1-(5-nitro-2-benzothiazolyl)-1H-pyrazol-5-yl]azo]-4-methyl-6-[(1,1,3,3-tetramethylbutyl)amino]-2-pyridinyl](4-octylphenyl)amino]-6-benzothiazolyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutoxy)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



Bu-t

L15 ANSWER 4 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:353428 HCAPLUS
 DOCUMENT NUMBER: 136:369603
 TITLE: Preparation of (sulfonylamino)(aminomethylidene)indolines as cell proliferation inhibitors.
 INVENTOR(S): Walter, Rainer; Heckel, Armin; Roth, Gerald Juergen; Kley, Joerg; Schnapp, Gisela; Lenter, Martin; Van Meel, Jacobus Constantinus Antonius; Spevak, Walter; Weyer-Czernilofsky, Ulrike
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

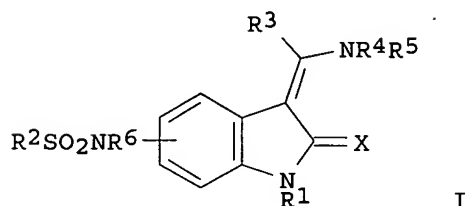
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036564	A1	20020510	WO 2001-EP12523	20011030 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,				

US, UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10054019	A1	20020523	DE 2000-10054019	20001101 <--
AU 200215980	A	20020515	AU 2002-15980	20011030 <--
EP 1341760	A1	20030910	EP 2001-992699	20011030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004513113	T	20040430	JP 2002-539324	20011030
US 2003069299	A1	20030410	US 2001-2939	20011101 <--
US 6638965	B2	20031028		
US 2004044222	A1	20040304	US 2003-646423	20030822 <--
US 7160901	B2	20070109		
US 2004044053	A1	20040304	US 2003-646495	20030822 <--
US 7166615	B2	20070123		

PRIORITY APPLN. INFO.:
 DE 2000-10054019 A 20001101
 US 2000-251055P P 20001201
 WO 2001-EP12523 W 20011030
 US 2001-2939 A3 20011101

OTHER SOURCE(S): MARPAT 136:369603
 GI

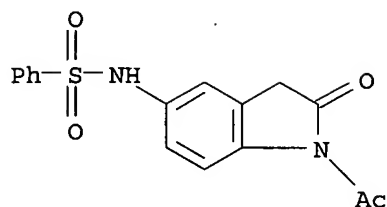


AB Title compds. [I; X = O, S; R1 = H, alkoxycarbonyl, alkanoyl; R2 = (substituted) alkyl, alkenyl, Ph, heteroaryl, cycloalkyl, naphthyl, etc.; R3 = H, alkyl; R4 = (substituted) Ph, naphthyl, heteroaryl; R5, R6 = H, alkyl], were prepared Thus, 1-acetyl-3-(1-ethoxy-1-phenylmethyldene)-5-(N-acetyl-N-phenylsulfonylamino)-2-indolinone (preparation given) and 4-[N-acetyl-N-(2-trifluoroacetyl-aminoethyl)amino]aniline (preparation given) were heated in DMF for 6 h at 120° to give 49% (Z)-3-[1-[4-[N-acetyl-N-(2-aminoethyl)amino]phenylamino]-1-phenylmethyldene]-5-phenylsulfonylamino-2-indolinone. Tested I inhibited proliferation of leiomyosarcoma SK-UT-1B cells in mice at <0.01 μM-1.0 μM.

IT 422518-12-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of (sulfonylamino)(aminomethyldene)indolinones as cell proliferation inhibitors)

RN 422518-12-5 HCAPLUS

CN 2H-Indol-2-one, 1-acetyl-1,3-dihydro-5-[(phenylsulfonyl)amino]- (9CI) (CA INDEX NAME)

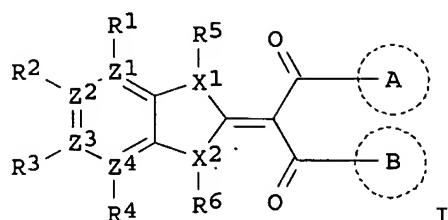


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:31423 HCAPLUS
 DOCUMENT NUMBER: 136:102388
 TITLE: Preparation of 2-(benzoazolidinylene)propane-1,3-dione derivatives as GnRH receptor antagonists
 INVENTOR(S): Hirano, Masaaki; Kawaminami, Eiji; Toyoshima, Akira; Moritomo, Hiroyuki; Seki, Norio; Wakayama, Ryutaro; Okada, Minoru; Kusayama, Toshiyuki
 PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002533	A1	20020110	WO 2001-JP5813	20010704 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2415010	A1	20020110	CA 2001-2415010	20010704 <--
AU 200171022	A	20020114	AU 2001-71022	20010704 <--
EP 1300398	A1	20030409	EP 2001-949914	20010704
EP 1300398	B1	20060405		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 322485	T	20060415	AT 2001-949914	20010704
PT 1300398	T	20060731	PT 2001-949914	20010704
ES 2261437	T3	20061116	ES 2001-1949914	20010704
US 2003191164	A1	20031009	US 2002-311688	20021219 <--
US 6960591	B2	20051101		
US 2005267110	A1	20051201	US 2005-155595	20050620 <--
PRIORITY APPLN. INFO.:				
			JP 2000-204425	A 20000705
			JP 2001-153372	A 20010523
			WO 2001-JP5813	W 20010704
			US 2002-311688	A3 20021219

OTHER SOURCE(S): MARPAT 136:102388
 GI



AB Described are medicinal compns., in particular, gonadotropin releasing hormone (GnRH) receptor antagonists comprising propane-1,3-dione derivs. represented by the following general formula [I; R1, R2, R3, R4 = H, NO2, cyano, halo, (un)substituted hydrocarbyl, heterocyclyl, OH, CO2H, acyloxy, or acyl, substituent-S(O)n, H-S(O)n (wherein n = an integer of 0-2), (un)substituted CONH2, SO2NH2, or NH2; or two adjacent groups selected from R1-R4 are taken together to form aryl or cycloalkenyl; R5, R6 = H, halo, (un)substituted hydrocarbyl or NH2; X1, X2 = N, S, O; A, B = (un)substituted aryl or heterocyclyl; Z1, Z2, Z3, Z4 = C, N; provided that (1) when X1 and X2 are S or O, both or one of R5 and R6 is absent or (2) when 1 to 4 of Z1, Z2, Z3, and /or Z4 is N, the corresponding R1, R2, R3, and/or R4 is absent.] as the active ingredient. These compds. I are nonpeptide compds. having a GnRH antagonism and lowering sex hormone and are useful for the treatment of sex hormone-dependent diseases such as prostate cancer, breast cancer, endometriosis, and hysteromyoma. Thus, K2CO3 and NaI were successively added to a soln. of 1-(3,5-difluorophenyl)-2-(5-hydroxy-1,3-dihydro-2H-benzimidazol-2-ylidene)-3-phenylpropane-1,3-dione (preparation given) and 3-chloromethylpyridine hydrochloride in MeCN and stirred at 80° for 3.5 h to give 1-(3,5-difluorophenyl)-2-[5-(3-pyridylmethoxy)-1,3-dihydro-2H-benzimidazol-2-ylidene]-3-phenylpropane-1,3-dione (II). II and 24 other compds. I in vitro showed IC50 of 10-10 to 10-9 M for inhibiting the binding of 125I-D-Trp6-LHRH to human GnRH receptor. In particular, 2-(dihydrobenzoimidazol-2-ylidene)propane-1,3-dione derivs. exhibited the GnRH receptor-inhibitory activity equivalent to that of the peptide GnRH antagonist cetrorelix.

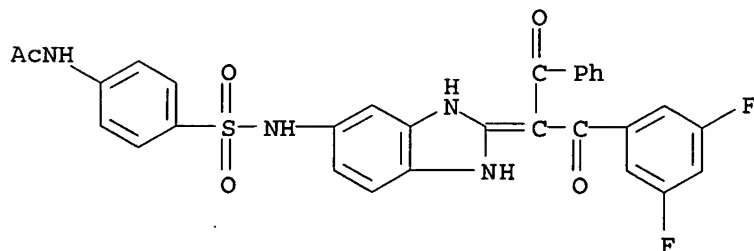
IT 388596-43-8P 388596-44-9P 388596-45-0P
388596-46-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (benzoazolidinylene)propanedione derivs. as GnRH receptor antagonists for treating sex hormone-dependent diseases)

RN 388596-43-8 HCAPLUS

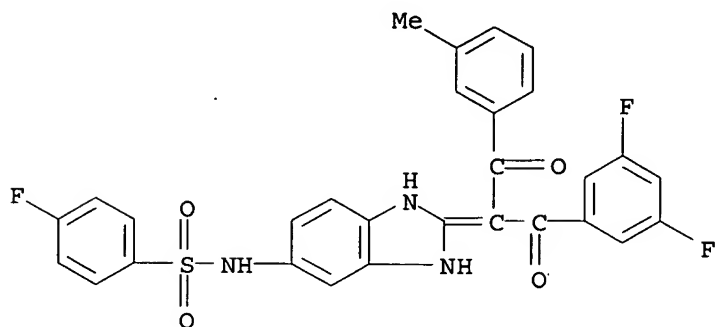
CN Acetamide, N-[4-[[[2-[1-benzoyl-2-(3,5-difluorophenyl)-2-oxoethylidene]-2,3-dihydro-1H-benzimidazol-5-yl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



10690708.trn

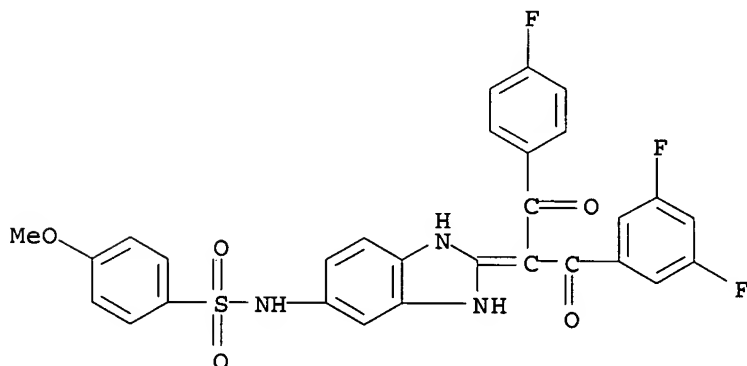
RN 388596-44-9 HCAPLUS

CN Benzenesulfonamide, N-[2-[1-(3,5-difluorobenzoyl)-2-(3-methylphenyl)-2-oxoethylidene]-2,3-dihydro-1H-benzimidazol-5-yl]-4-fluoro- (9CI) (CA INDEX NAME)



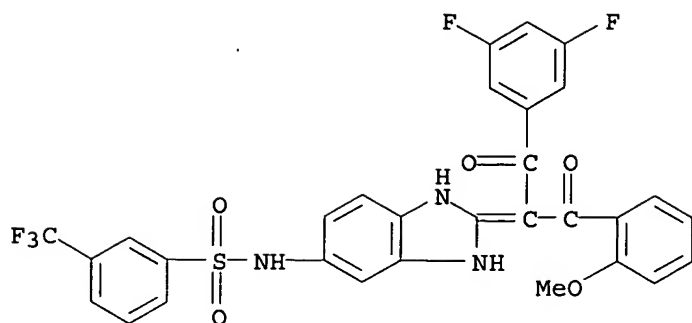
RN 388596-45-0 HCAPLUS

CN Benzenesulfonamide, N-[2-[1-(3,5-difluorobenzoyl)-2-(4-fluorophenyl)-2-oxoethylidene]-2,3-dihydro-1H-benzimidazol-5-yl]-4-methoxy- (9CI) (CA INDEX NAME)



RN 388596-46-1 HCAPLUS

CN Benzenesulfonamide, N-[2-[1-(3,5-difluorobenzoyl)-2-(2-methoxyphenyl)-2-oxoethylidene]-2,3-dihydro-1H-benzimidazol-5-yl]-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



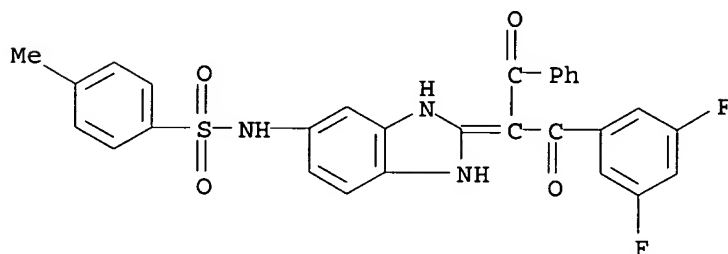
IT 388600-59-7, N-[2-[1-Benzoyl-2-(3,5-difluorophenyl)-2-oxoethylidene]-2,3-dihydro-1H-benzimidazol-5-yl]-4-methylbenzenesulfonamide

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of (benzoazolidinylene)propanedione derivs. as GnRH receptor antagonists for treating sex hormone-dependent diseases)

RN 388600-59-7 HCAPLUS

CN Benzenesulfonamide, N-[2-[1-benzoyl-2-(3,5-difluorophenyl)-2-oxoethylidene]-2,3-dihydro-1H-benzimidazol-5-yl]-4-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:581738 HCAPLUS

DOCUMENT NUMBER: 135:175421

TITLE: Integrin expression inhibitors

INVENTOR(S): Wakabayashi, Toshiaki; Funahashi, Yasuhiro; Hata, Naoko; Semba, Taro; Yamamoto, Yuji; Haneda, Toru; Owa, Takashi; Tsuruoka, Akihiko; Kamata, Junichi; Okabe, Tadashi; Takahashi, Keiko; Nara, Kazumasa; Hamaoka, Shinichi; Ueda, Norihiro

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 153 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001056607	A1	20010809	WO 2001-JP713	20010201 <--
W: AU, CA, CN, HU, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2399001	A1	20010809	CA 2001-2399001	20010201 <--
AU 2001028867	A5	20010814	AU 2001-28867	20010201 <--
AU 781506	B2	20050526		
EP 1258252	A1	20021120	EP 2001-948941	20010201 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
HU 200300544	A2	20030728	HU 2003-544	20010201
NZ 520299	A	20040528	NZ 2001-520299	20010201
RU 2240826	C2	20041127	RU 2002-123580	20010201
US 2004018192	A1	20040129	US 2002-181562	20020718 <--
NO 2002003688	A	20021003	NO 2002-3688	20020802 <--
US 2005176712	A1	20050811	US 2005-97218	20050404 <--
PRIORITY APPLN. INFO.:			JP 2000-26080	A 20000203
			JP 2000-402084	A 20001228
			WO 2001-JP713	W 20010201
			US 2002-181562	A1 20020718

OTHER SOURCE(S): MARPAT 135:175421

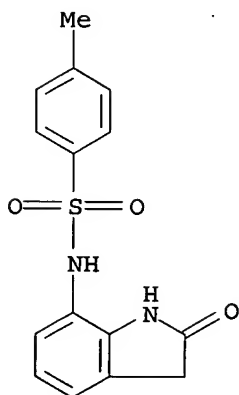
AB Integrin expression inhibitors and remedies for arteriosclerosis, psoriasis, cancer, retinal angiogenesis, diabetic retinitis or inflammatory diseases, anticoagulant agents and cancerous metastasis inhibitors based on the integrin inhibitory effect. Namely, integrin expression inhibitors containing as the active ingredient sulfonamide compds. represented by the following general formula BKSO₂N(R₁)ZR, pharmacol. acceptable salts thereof or hydrates of the same wherein B represents optionally substituted C₆-10 aryl or 6- to 10-membered heteroaryl wherein the ring may be partly saturated; K represents a single bond, -CH=CH- or -(CR₄bR₅b)_{mb}- (wherein R₄b and R₅b may be the same or different and each represents hydrogen or C₁-4 alkyl; and mb represents an integer of 1 or 2); R₁ represents hydrogen or C₁-6 alkyl; Z represents a single bond or CO-NH-; and R represents optionally substituted C₆-10 aryl or 6- to 10-membered heteroaryl wherein the ring may be partly saturated

IT 165668-28-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(integrin expression inhibitors for medical uses)

RN 165668-28-0 HCAPLUS

CN Benzenesulfonamide, N-(2,3-dihydro-2-oxo-1H-indol-7-yl)-4-methyl- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:526062 HCAPLUS

DOCUMENT NUMBER: 135:107328

TITLE: Preparation of 1,2-diarylbenzimidazolealkanoates and analogs for treatment of disorders mediated by microglia activation

INVENTOR(S): Kuhnke, Joachim; Halfbrodt, Wolfgang; Moenning, Ursula

PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

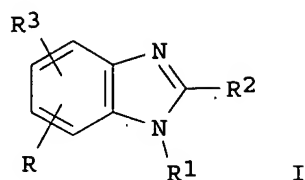
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051473	A1	20010719	WO 2001-EP334	20010112 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
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JP 2003523961	T	20030812	JP 2001-551855	20010112
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NZ 519326	A	20050225	NZ 2001-519326	20010112
AU 782993	B2	20050915	AU 2001-42332	20010112
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US 7115645	B2	20061003		
IN 2002MN00672	A	20050304	IN 2002-MN672	20020524
BG 106821	A	20030131	BG 2002-106821	20020613
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ZA 2002006470	A	20040219	ZA 2002-6470	20020813
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US 2006205803	A1	20060914	US 2005-305521	20051216 <--
PRIORITY APPLN. INFO.:			DE 2000-10002898	A 20000114
			US 2000-178324P	P 20000127
			WO 2001-EP334	W 20010112
			US 2001-759360	A3 20010116
OTHER SOURCE(S):	MARPAT 135:107328			
GI				



AB Title compds. [I; R = ZZ1R4; R1,R2 = (un)substituted (hetero)aryl; R3 = H, halo, substituted alkyl, alkoxy, etc.; R4 = CO2H, alkoxycarbonyl, CONH2, SO3H, etc.; Z = O, (alkyl)imino, acylimino; Z1 = (heteroatom-interrupted) alkyl(en)ylene, etc.] were prepared. Thus, I (R1 = R2 = Ph, R3 = H) (II; R = 6-OH) was etherified by BrCH2CO2CHMe3 to give II (R = 6-OCH2CO2CHMe3). Data for biol. activity of I were given.

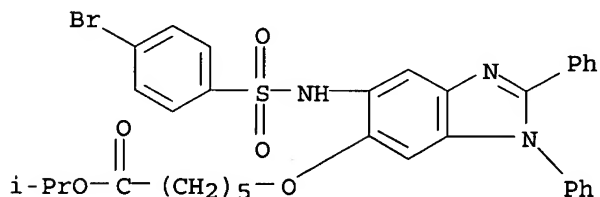
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1,2-diarylbenzimidazolealkanoates and analogs for treatment of disorders mediated by microglia activation)

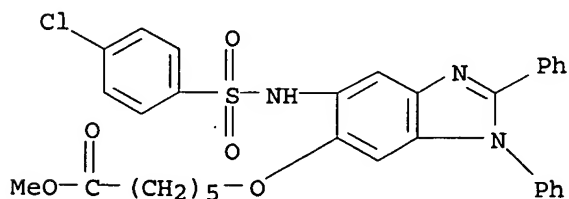
RN 350232-45-0 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-bromophenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 350232-47-2 HCAPLUS

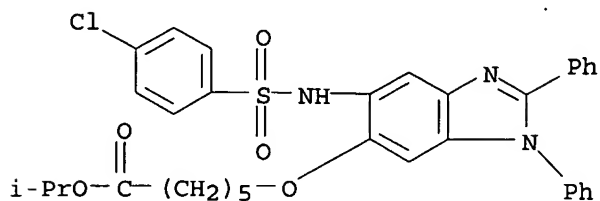
CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



10690708.trn

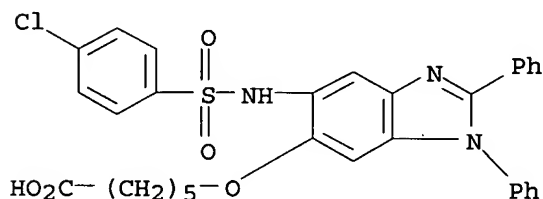
RN 350232-48-3 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[4-chlorophenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



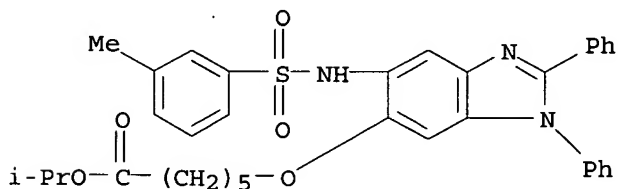
RN 350232-49-4 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[4-chlorophenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]- (9CI) (CA INDEX NAME)



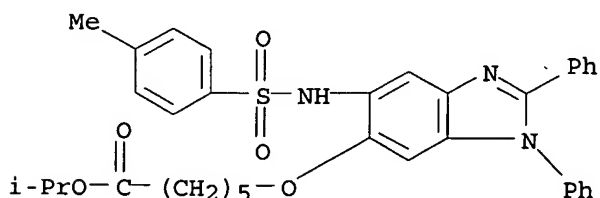
RN 350232-50-7 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[3-methylphenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 350232-51-8 HCAPLUS

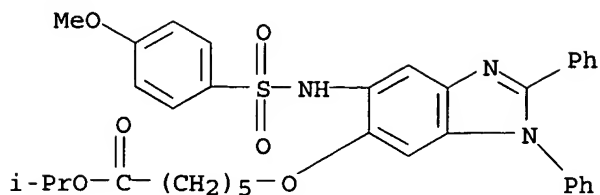
CN Hexanoic acid, 6-[[5-[[[4-methylphenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 350232-52-9 HCAPLUS

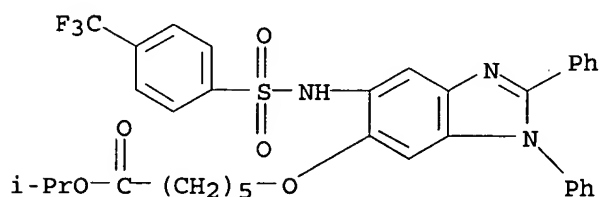
CN Hexanoic acid, 6-[[5-[[[4-methoxyphenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

10690708.trn



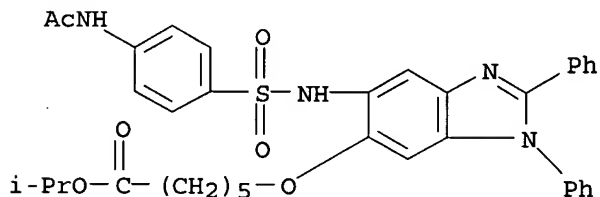
RN 350232-53-0 HCAPLUS

CN Hexanoic acid, 6-[[[1,2-diphenyl-5-[[[4-(trifluoromethyl)phenyl]sulfonyl]amino]-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



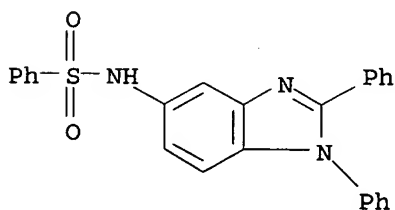
RN 350232-55-2 HCAPLUS

CN Hexanoic acid, 6-[[[5-[[[4-(acetamido)phenyl]sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 350232-92-7 HCAPLUS

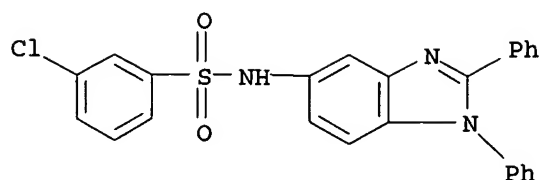
CN Benzenesulfonamide, N-(1,2-diphenyl-1H-benzimidazol-5-yl)- (9CI) (CA INDEX NAME)



RN 350232-94-9 HCAPLUS

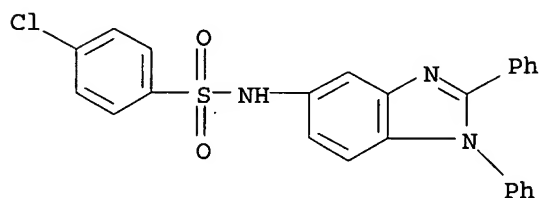
CN Benzenesulfonamide, 3-chloro-N-(1,2-diphenyl-1H-benzimidazol-5-yl)- (9CI) (CA INDEX NAME)

10690708.trn



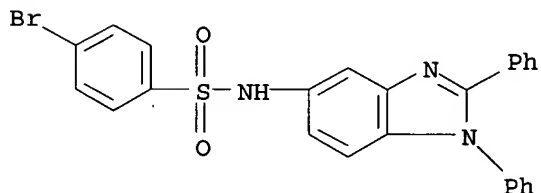
RN 350232-98-3 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-(1,2-diphenyl-1H-benzimidazol-5-yl) - (9CI)
(CA INDEX NAME)



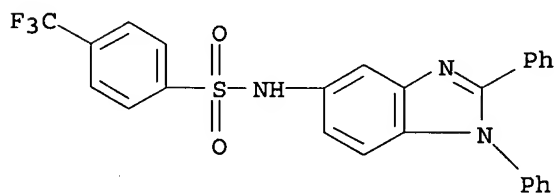
RN 350233-00-0 HCAPLUS

CN Benzenesulfonamide, 4-bromo-N-(1,2-diphenyl-1H-benzimidazol-5-yl) - (9CI)
(CA INDEX NAME)



RN 350233-04-4 HCAPLUS

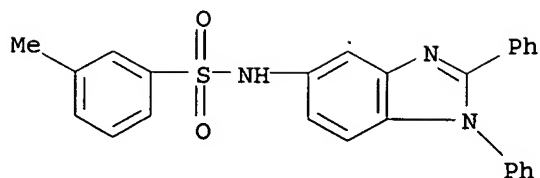
CN Benzenesulfonamide, N-(1,2-diphenyl-1H-benzimidazol-5-yl)-4-(trifluoromethyl) - (9CI) (CA INDEX NAME)



RN 350233-08-8 HCAPLUS

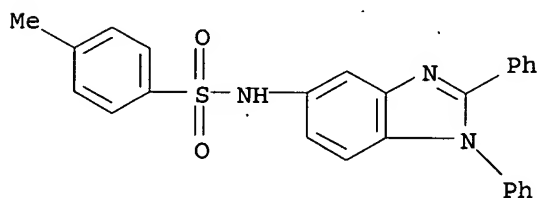
CN Benzenesulfonamide, N-(1,2-diphenyl-1H-benzimidazol-5-yl)-3-methyl - (9CI)
(CA INDEX NAME)

10690708.trn



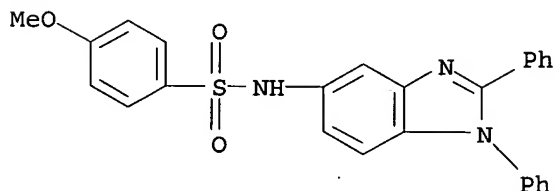
RN 350233-12-4 HCAPLUS

CN Benzenesulfonamide, N-(1,2-diphenyl-1H-benzimidazol-5-yl)-4-methyl- (9CI)
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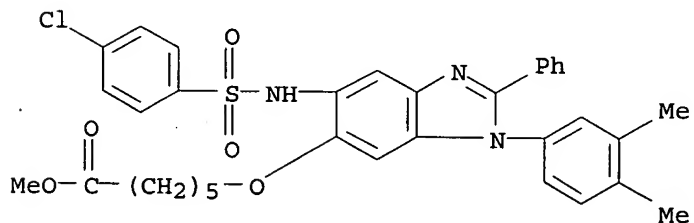
RN 350233-16-8 HCAPLUS

CN Benzenesulfonamide, N-(1,2-diphenyl-1H-benzimidazol-5-yl)-4-methoxy- (9CI)
(CA INDEX NAME)



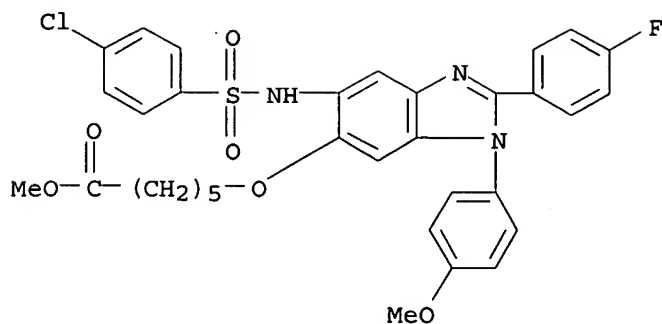
RN 350234-15-0 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(3,4-dimethylphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI)
(CA INDEX NAME)



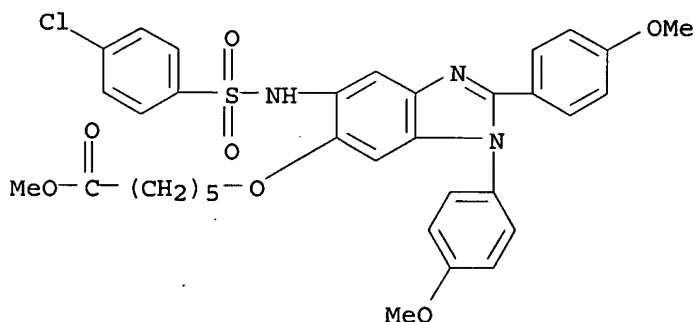
RN 350234-18-3 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-2-(4-fluorophenyl)-1-(4-methoxyphenyl)-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



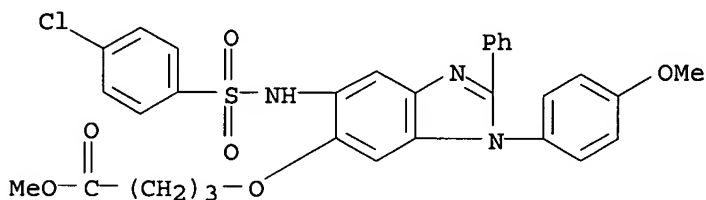
RN 350234-19-4 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1,2-bis(4-methoxyphenyl)-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



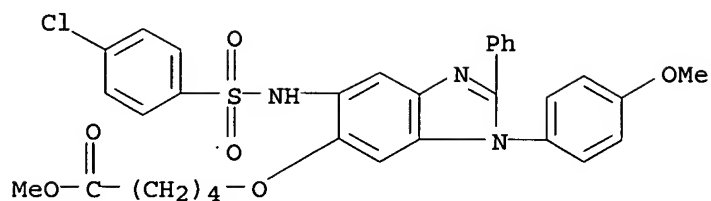
RN 350234-22-9 HCAPLUS

CN Butanoic acid, 4-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(4-methoxyphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



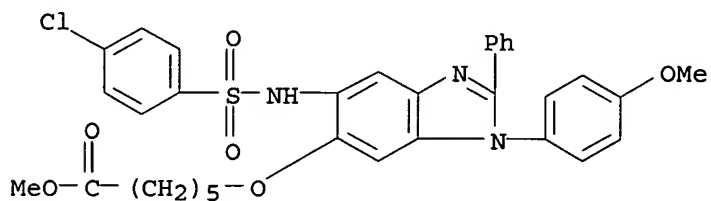
RN 350234-25-2 HCAPLUS

CN Pentanoic acid, 5-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(4-methoxyphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



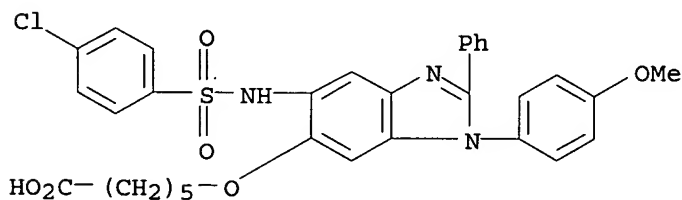
RN 350234-28-5 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(4-methoxyphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



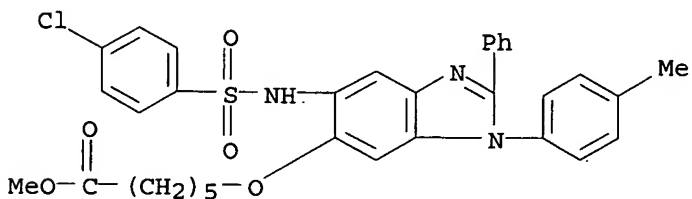
RN 350234-29-6 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(4-methoxyphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]- (9CI) (CA INDEX NAME)



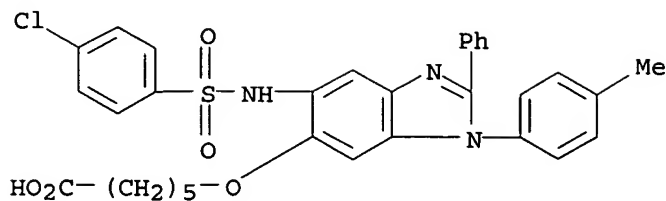
RN 350234-31-0 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(4-methylphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



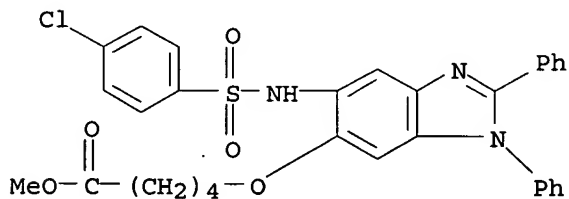
RN 350234-32-1 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1-(4-methylphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]- (9CI) (CA INDEX NAME)



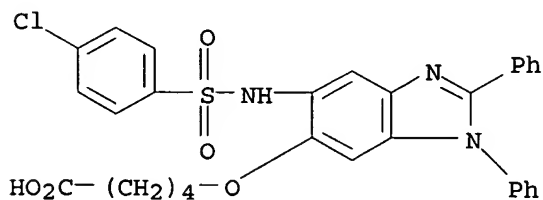
RN 350234-34-3 HCAPLUS

CN Pentanoic acid, 5-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



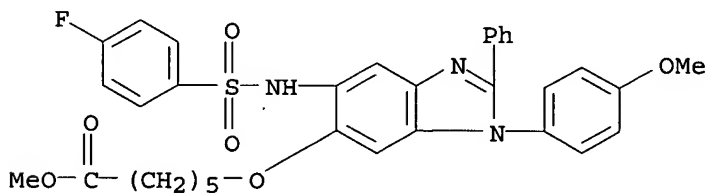
RN 350234-35-4 HCAPLUS

CN Pentanoic acid, 5-[[5-[[[(4-chlorophenyl)sulfonyl]amino]-1,2-diphenyl-1H-benzimidazol-6-yl]oxy]- (9CI) (CA INDEX NAME)



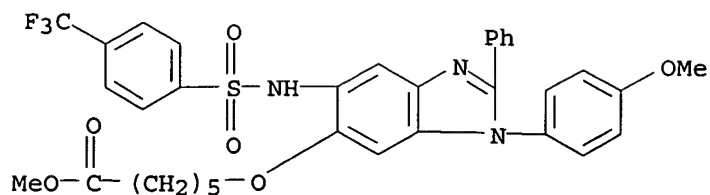
RN 350234-36-5 HCAPLUS

CN Hexanoic acid, 6-[[5-[[[(4-fluorophenyl)sulfonyl]amino]-1-(4-methoxyphenyl)-2-phenyl-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



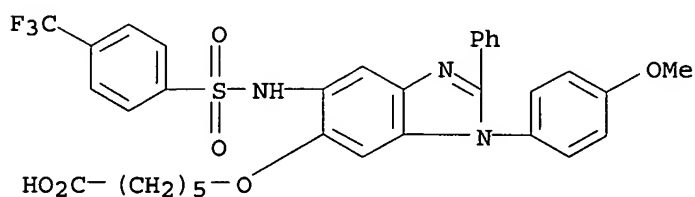
RN 350234-37-6 HCAPLUS

CN Hexanoic acid, 6-[[1-(4-methoxyphenyl)-2-phenyl-5-[[[(4-(trifluoromethyl)phenyl)sulfonyl]amino]-1H-benzimidazol-6-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



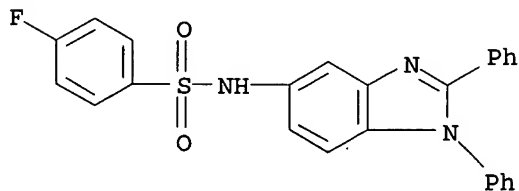
RN 350234-38-7 HCAPLUS

CN Hexanoic acid, 6-[[1-(4-methoxyphenyl)-2-phenyl-5-[[[4-(trifluoromethyl)phenyl]sulfonyl]amino]-1H-benzimidazol-6-yl]oxy]- (9CI)
(CA INDEX NAME)



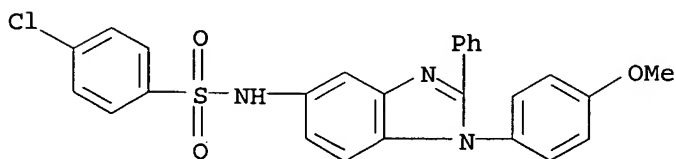
RN 350234-48-9 HCAPLUS

CN Benzenesulfonamide, N-(1,2-diphenyl-1H-benzimidazol-5-yl)-4-fluoro- (9CI)
(CA INDEX NAME)



RN 350234-53-6 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[1-(4-methoxyphenyl)-2-phenyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 8 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

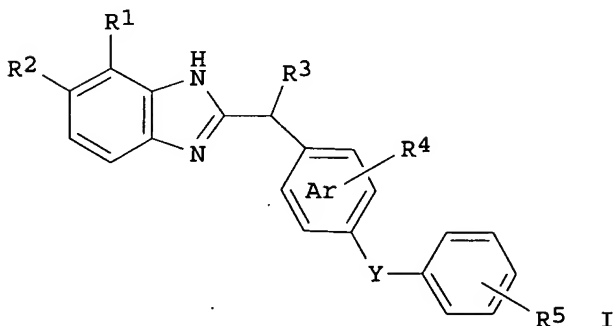
ACCESSION NUMBER: 2001:338351 HCAPLUS

DOCUMENT NUMBER: 134:340508

TITLE: Preparation of 2-benzyl and 2-heteroaryl benzimidazole
NMDA/NR2B antagonists

INVENTOR(S): McCauley, John A.; Theberge, Cory R.; Liverton, Nigel J.; Claremon, David A.; Claiborne, Christopher F.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA
 SOURCE: PCT Int. Appl., 80 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032174	A1	20010510	WO 2000-US29470	20001026 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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EP 1242076	A1	20020925	EP 2000-975393	20001026 <--
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JP 2003513041	T	20030408	JP 2001-534379	20001026
PRIORITY APPLN. INFO.:			US 1999-162351P	P 19991029
			WO 2000-US29470	W 20001026
OTHER SOURCE(S):			MARPAT 134:340508	
GI				



AB Novel benzimidazoles, substituted in the 2-position by substituted benzyl groups or heteroaryl groups, (I) [wherein R1, R2, R4, and R5 = independently H, Cl, F, OH, OMe, CF3, OCF3, NH2, CN, NO2, (amino)alkyl, aryl, alkylcarbonylamino, oxohydroxydibenzopyranyl-substituted carboxyphenylthioureido or carbonylaminoalkylcarbonylamino, R6SO2NH, R6SO2NMe, or R6SO2NHCH2; R3 = H, OH, NH2, alkylamino, arylamino, or :O; R6 = (un)substituted alkyl, (phenyl)alkenyl, Ph, naphthyl, or heterocyclic group; Y = O, NH, (CH2)nCO(CH2)n, or (CH2)nCHR3(CH2)n; n = 0-5; Ar may be substituted with 0-3 N atoms in positions 2, 3, 5, or 6] were prepared as

effective NMDA NR2B glutamate receptor antagonists. For example, cycloaddn. of phenylenediamine and (4-phenoxyphenyl)acetic acid in presence of EDC and HOBt in DMF afforded 2-(4-phenoxybenzyl)-1H-benzimidazole. Exptl. protocols for assessing the inhibition of NR1A/2B NMDA receptor activation (FLIPR assay) and determining the apparent

dissociation

consts. against the human NR1A/NR2B receptor (binding assay) are given (no data). I are useful for relieving pain and treating depression, schizophrenia, Parkinson's disease, or stroke (no data).

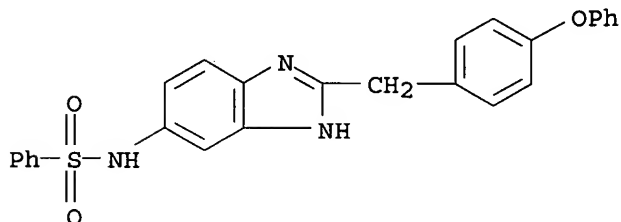
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337965-19-2P 337965-21-6P 337965-23-8P
337965-25-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2-benzyl and 2-heteroaryl benzimidazole NMDA/NR2B antagonists by cycloaddn. of phenylenediamines with arylacetates)

RN 337965-02-3 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-(9CI) (CA INDEX NAME)



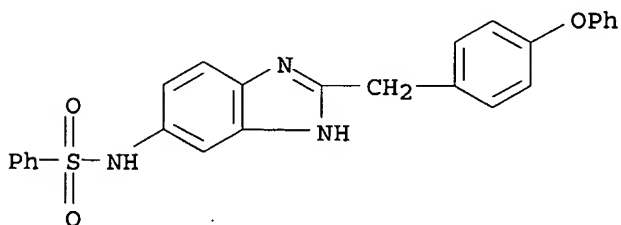
RN 337965-03-4 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-02-3

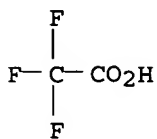
CMF C26 H21 N3 O3 S



CM 2

CRN 76-05-1

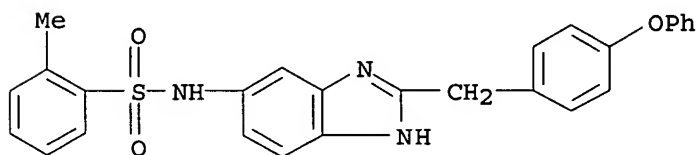
CMF C2 H F3 O2



RN 337965-05-6 HCAPLUS
 CN Benzenesulfonamide, 2-methyl-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

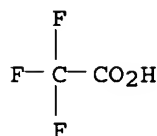
CM 1

CRN 337965-04-5
 CMF C27 H23 N3 O3 S



CM 2

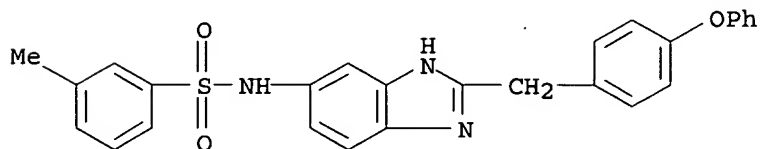
CRN 76-05-1
 CMF C2 H F3 O2



RN 337965-07-8 HCAPLUS
 CN Benzenesulfonamide, 3-methyl-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

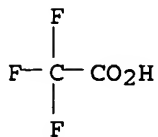
CRN 337965-06-7
 CMF C27 H23 N3 O3 S



CM 2

10690708.trn

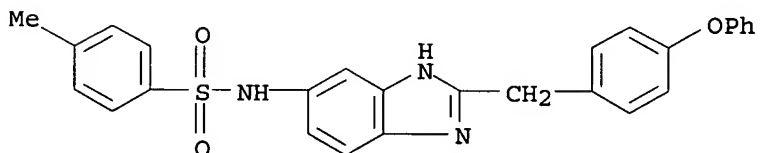
CRN 76-05-1
CMF C2 H F3 O2



RN 337965-09-0 HCAPLUS
CN Benzenesulfonamide, 4-methyl-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

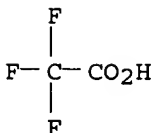
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CRN 337965-08-9
CMF C27 H23 N3 O3 S



CM 2

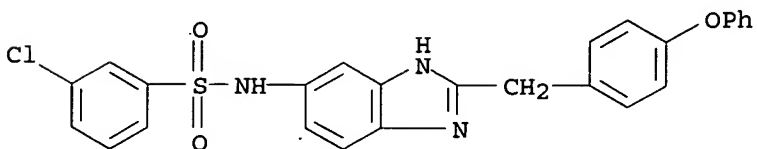
CRN 76-05-1
CMF C2 H F3 O2



RN 337965-11-4 HCAPLUS
CN Benzenesulfonamide, 3-chloro-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-10-3
CMF C26 H20 Cl N3 O3 S

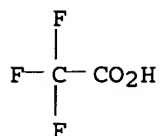


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CM 2

CRN 76-05-1

CMF C2 H F3 O2



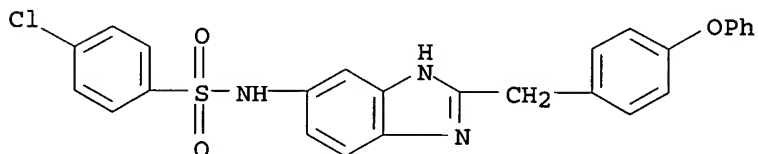
RN 337965-13-6 HCAPLUS

CN Benzenesulfonamide, 4-chloro-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-12-5

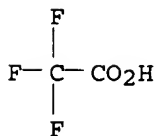
CMF C26 H20 Cl N3 O3 S



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 337965-15-8 HCAPLUS

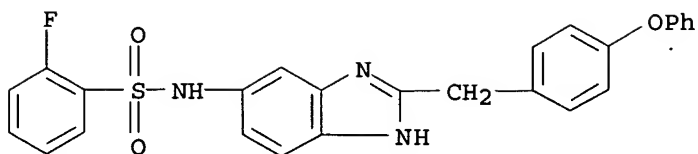
CN Benzenesulfonamide, 2-fluoro-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-14-7

CMF C26 H20 F N3 O3 S

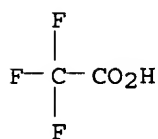
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CM 2

CRN 76-05-1

CMF C2 H F3 O2



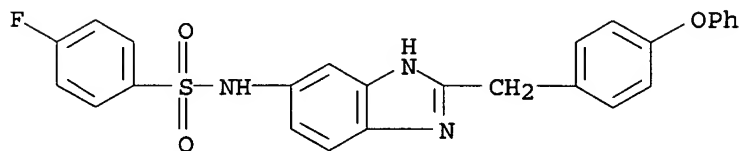
RN 337965-17-0 HCAPLUS

CN Benzenesulfonamide, 4-fluoro-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-16-9

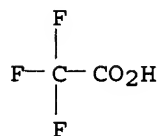
CMF C26 H20 F N3 O3 S



CM 2

CRN 76-05-1

CMF C2 H F3 O2



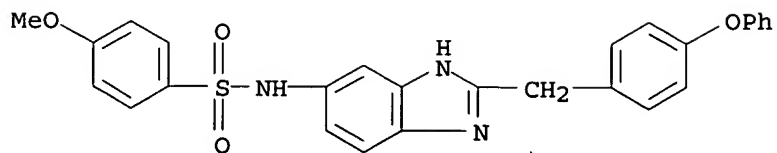
RN 337965-19-2 HCAPLUS

CN Benzenesulfonamide, 4-methoxy-N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

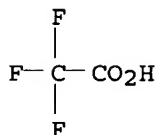
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CRN 337965-18-1
CMF C27 H23 N3 O4 S



CM 2

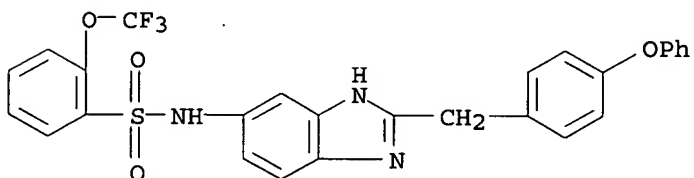
CRN 76-05-1
CMF C2 H F3 O2



RN 337965-21-6 HCAPLUS
CN Benzenesulfonamide, N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-2-(trifluoromethoxy)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

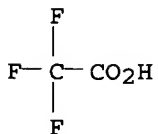
CM 1

CRN 337965-20-5
CMF C27 H20 F3 N3 O4 S



CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 337965-23-8 HCAPLUS
CN Benzenesulfonamide, N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-2-

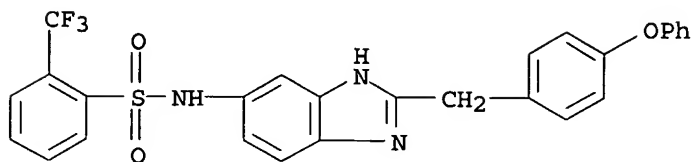
10690708.trn

(trifluoromethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-22-7

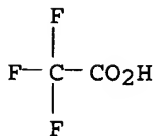
CMF C27 H20 F3 N3 O3 S



CM 2

CRN 76-05-1

CMF C2 H F3 O2



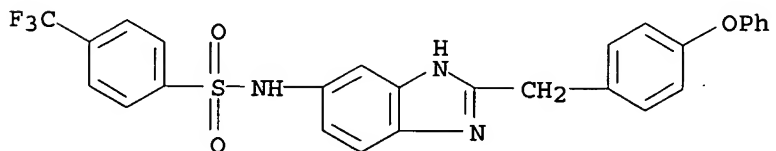
RN 337965-25-0 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-phenoxyphenyl)methyl]-1H-benzimidazol-5-yl]-4-(trifluoromethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 337965-24-9

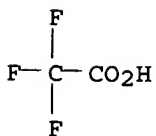
CMF C27 H20 F3 N3 O3 S



CM 2

CRN 76-05-1

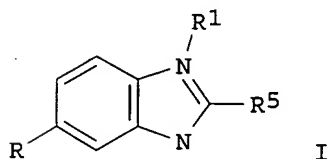
CMF C2 H F3 O2



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 9 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:224233 HCAPLUS
 DOCUMENT NUMBER: 134:252337
 TITLE: Preparation of N-[(amindinophenethyl)benzimidazolyl]benzenesulfonamides and analogs as tryptase inhibitors
 INVENTOR(S): Anderskewitz, Ralf; Braun, Christine; Briem, Hans; Disse, Bernd; Hoenke, Christoph; Jennewein, Hans Michael; Speck, Georg
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
 SOURCE: Ger. Offen., 28 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19945810	A1	20010329	DE 1999-19945810	19990924 <--
CA 2382892	A1	20010405	CA 2000-2382892	20000921 <--
WO 2001023359	A1	20010405	WO 2000-EP9236	20000921 <--
W: AE, AU, BG, BR, CA, CN, CZ, EE, HR, HU, ID, IL, IN, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6413990	B1	20020702	US 2000-666769	20000921 <--
EP 1220845	A1	20020710	EP 2000-969275	20000921 <--
EP 1220845	B1	20030813		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
JP 2003510309	T	20030318	JP 2001-526513	20000921
AT 247092	T	20030815	AT 2000-969275	20000921
PRIORITY APPLN. INFO.:				
			DE 1999-19945810	A 19990924
			US 1999-157389P	P 19991001
			WO 2000-EP9236	W 20000921
OTHER SOURCE(S): MARPAT 134:252337				
GI				



AB Title compds. (I; R5 = CH₂CH₂C₆H₄R₂-4) [II; R = NR₄SO₂R₃; R₁ = (cyclo)alkyl, (un)substituted phenylalkyl, etc.; R₂ = C(:NH)NH₂ or CH₂NH₂; R₃ = (un)substituted Ph, -naphthyl, -(benzo)thienyl, etc.; R₄ = H, aminoalkyl, ureidoalkyl, etc.] were prepared Thus, 2-fluoro-5-nitroaniline was aminated and the product cyclocondensed with 4-(NC)C₆H₄CH₂CH₂CO₂H to give, after reduction, II (R₁ = Me) (III; R = NH₂, R₂ = cyano) which was amidated and the product converted in 4 steps to III [R =

4-(MeO₂C)C₆H₄SO₂N(CH₂CH₂NEt₂), R₂ = C(:NH)NH₂]. Data for biol. activity of I were given.

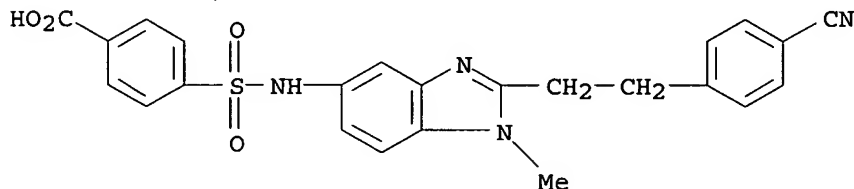
IT 331449-67-3P 331449-68-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-[(amindinophenethyl)benzimidazolyl]benzenesulfonamides and analogs as tryptase inhibitors)

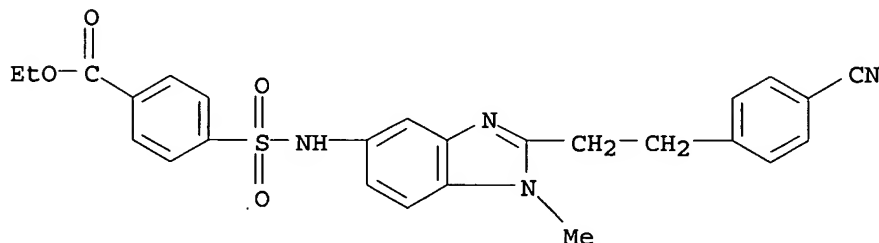
RN 331449-67-3 HCAPLUS

CN Benzoic acid, 4-[[[2-[2-(4-cyanophenyl)ethyl]-1-methyl-1H-benzimidazol-5-yl]amino]sulfonyl]- (9CI) (CA INDEX NAME)



RN 331449-68-4 HCAPLUS

CN Benzoic acid, 4-[[[2-[2-(4-cyanophenyl)ethyl]-1-methyl-1H-benzimidazol-5-yl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 10 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:224232 HCAPLUS

DOCUMENT NUMBER: 134:266307

TITLE: Preparation of 2-arylethyl-5-arylsulfonamidobenzimidazoles as tryptase inhibitors.

INVENTOR(S): Anderskewitz, Ralf; Braun, Christine; Briem, Hans; Disse, Bernd; Hoenke, Christoph; Jennewein, Hans Michael; Speck, Georg

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 36 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19945787	A1	20010329	DE 1999-19945787	19990924 <--
CA 2379557	A1	20010405	CA 2000-2379557	20000921 <--
WO 2001023360	A1	20010405	WO 2000-EP9237	20000921 <--
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LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, US, UZ, VN, YU, ZA,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE

US 6365584 B1 20020402 US 2000-666765 20000921 <--
 EP 1220844 A1 20020710 EP 2000-960686 20000921 <--
 EP 1220844 B1 20030409

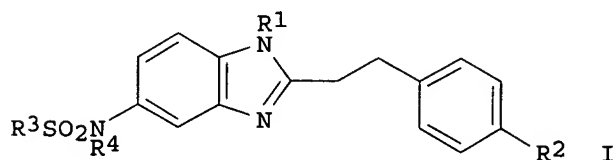
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, CY

JP 2003510310 T 20030318 JP 2001-526514 20000921
 AT 236887 T 20030415 AT 2000-960686 20000921
 PT 1220844 T 20030829 PT 2000-960686 20000921
 ES 2192543 T3 20031016 ES 2000-960686 20000921

PRIORITY APPLN. INFO.:

DE 1999-19945787 A 19990924
 US 1999-157278P P 19991001
 WO 2000-EP9237 W 20000921

OTHER SOURCE(S): MARPAT 134:266307
 GI



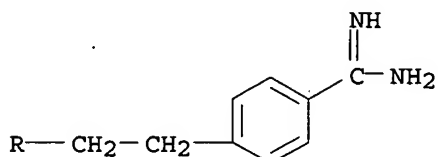
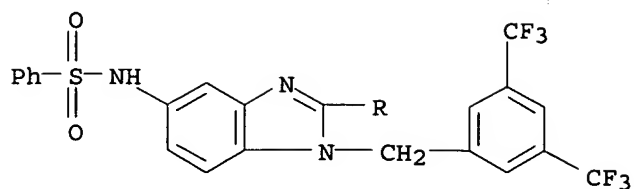
AB Title compds. [I; R1 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, phenylalkyl, heterocyclyl, heterocyclylalkyl; R2 = C(:NH)NH2, CH2NH2; R3 = Ph, PhCH2, naphthyl, furyl, benzofuryl, thienyl, benzothienyl; R4 = H, (substituted) alkyl, heterocyclyl, heterocyclylalkyl, etc.], were prepared Thus, N-[3-amino-4-(3,5-bistrifluoromethylbenzylamino)phenyl]benzenesulfonamide (preparation given), p-cyanophenylpropionic acid, and POCl3 were heated together for 2 h at 100-120° to give 71.5% N-[2-[2-(4-cyanophenyl)ethyl]-1-(3,5-bistrifluoromethylbenzyl)benzimidazol-5-yl]benzenesulfonamide. This was stirred with HCl in EtOH at 0-5° and the residue after distillation of EtOH was treated with NH3 in EtOH to give 70.3% N-[2-[2-(4-amidinophenyl)ethyl]-1-(3,5-bistrifluoromethylbenzyl)benzimidazol-5-yl]benzenesulfonamide. I inhibited tryptase with IC50 = 0.0066-0.412 μM.

IT 331766-13-3P 331766-20-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of aryylethylarylsulfonamidobenzimidazoles as tryptase inhibitors)

RN 331766-13-3 HCAPLUS

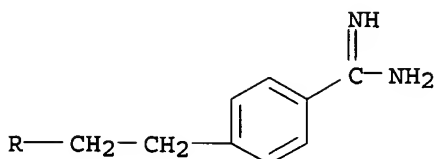
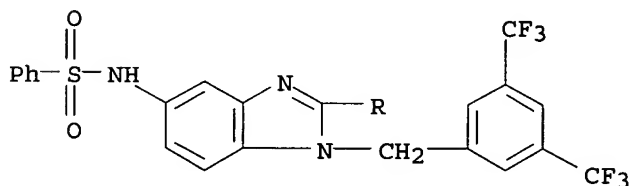
CN Benzenecarboximidamide, 4-[2-[1-[[3,5-bis(trifluoromethyl)phenyl]methyl]-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 331766-20-2 HCAPLUS

CN Benzenecarboximidamide, 4-[2-[1-[[3,5-bis(trifluoromethyl)phenyl]methyl]-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]ethyl]- (9CI) (CA INDEX NAME)

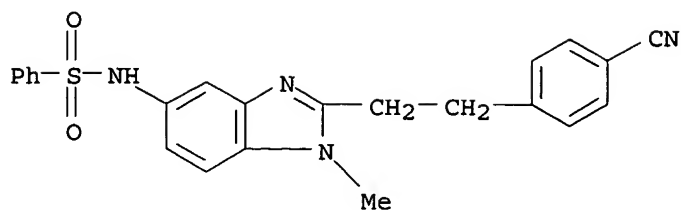


IT 256493-19-3P 331766-54-2P 331766-59-7P
331766-62-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aryylethylarylsulfonamidobenzimidazoles as tryptase inhibitors)

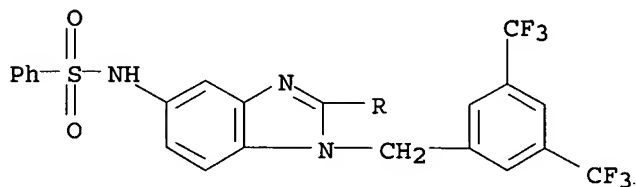
RN 256493-19-3 HCAPLUS

CN Benzenesulfonamide, N-[2-[2-(4-cyanophenyl)ethyl]-1-methyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



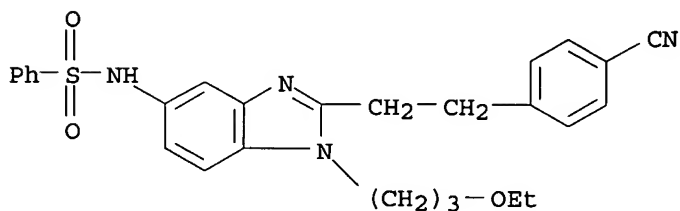
RN 331766-54-2 HCAPLUS

CN Benzenesulfonamide, N-[1-[[3,5-bis(trifluoromethyl)phenyl]methyl]-2-[2-(4-cyanophenyl)ethyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



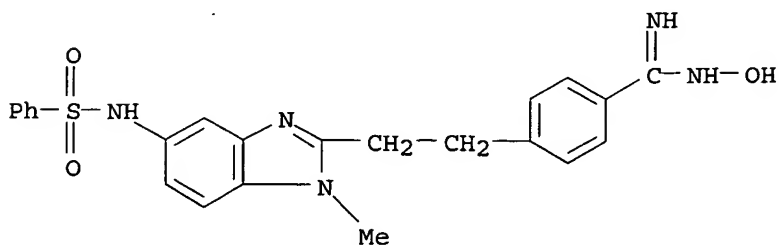
RN 331766-59-7 HCAPLUS

CN Benzenesulfonamide, N-[2-[2-(4-cyanophenyl)ethyl]-1-(3-ethoxypropyl)-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



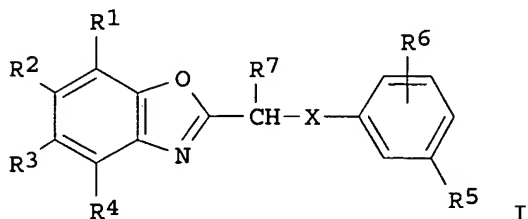
RN 331766-62-2 HCAPLUS

CN Benzenecarboximidamide, N-hydroxy-4-[2-[1-methyl-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]ethyl]- (9CI) (CA INDEX NAME)



L15 ANSWER 11 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:790487 HCAPLUS
 DOCUMENT NUMBER: 133:335229
 TITLE: Preparation of benzoxazole compounds, process for the preparation thereof and herbicides
 INVENTOR(S): Fukuda, Shohei; Nakamura, Akira; Shimizu, Motohisa; Okada, Tatsuo; Asahara, Takehiko; Oohida, Satoshi
 PATENT ASSIGNEE(S): Ube Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 69 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000066569	A1	20001109	WO 2000-JP2760	20000427 <--
W: BR, CA, CN, IN, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2371681	A1	20001109	CA 2000-2371681	20000427 <--
JP 2001011061	A	20010116	JP 2000-126933	20000427 <--
BR 2000010703	A	20020219	BR 2000-10703	20000427 <--
EP 1180515	A1	20020220	EP 2000-921051	20000427 <--
EP 1180515	B1	20040414		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
AT 264314	T	20040415	AT 2000-921051	20000427
ES 2219332	T3	20041201	ES 2000-921051	20000427
US 6706664	B1	20040316	US 2001-959544	20011030 <--
PRIORITY APPLN. INFO.:			JP 1999-124912	A 19990430
			WO 2000-JP2760	W 20000427
OTHER SOURCE(S):		MARPAT 133:335229		
GI				



AB Claimed are benzoxazole compds. represented by general formula (I; wherein R1 to R4 are each hydrogen, C1-6 alkyl, C1-4 alkoxy, C1-4 haloalkyl, C1-4 haloalkoxy, halogeno, nitro, cyano, or the like; R5 is C1-4 haloalkyl, C1-4 haloalkoxy, halogeno, nitro, cyano, or the like; R6 is hydrogen, halogeno, cyano, nitro, or the like; R7 is hydrogen, C1-6 alkyl, C1-4 haloalkyl, or the like; and X is O, S, SO, or SO₂); process for the preparation of them; and herbicides containing the same as the active ingredient. Thus, chlorination of 2-[4-fluoro-3-(trifluoromethyl)phenoxy]butanoic acid with SOCl₂ under reflux for 2 h gave 2-[4-fluoro-3-

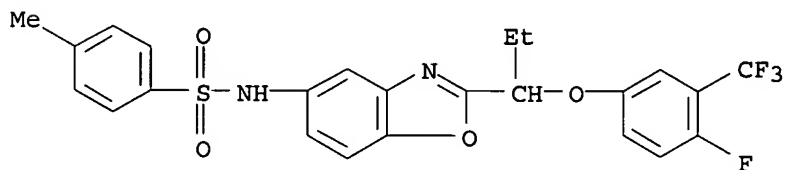
(trifluoromethyl)phenoxy]butanoyl chloride which underwent cyclocondensation with 2-amino-4-fluorophenol in AcOH at 50-60° for 1 h to give 1-(5-fluorobenzoxazol-2-yl)-1-[4-fluoro-3-(trifluoromethyl)phenoxy]propane (II). II at 500 g/ha (preemergent soil-treatment) completely controlled *Digitaria ciliaris*, *Echinochloa crus-galli*, *Setaria viridis*, and *Poa annua* and gave no damage to corn, soy bean, cotton, and wheat plants.

IT 303183-23-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of benzoxazole compds., process for preparation thereof and herbicides)

RN 303183-23-5 HCAPLUS

CN Benzenesulfonamide, N-[2-[1-[4-fluoro-3-(trifluoromethyl)phenoxy]propyl]-5-benzoxazolyl]-4-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 12 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:83221 HCAPLUS

DOCUMENT NUMBER: 132:137386

TITLE: Preparation of heterocyclalkylbenzamidines and analogs as thrombin inhibitors

INVENTOR(S): Hauel, Norbert; Ries, Uwe; Priepke, Henning; Mihm, Gerhard; Wiene, Wolfgang; Stassen, Jean Marie; Binder, Klaus; Zimmermann, Rainer

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 58 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

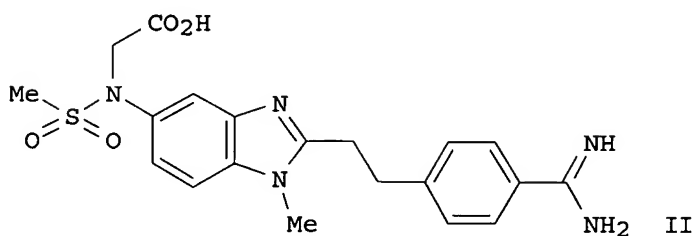
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19834751	A1	20000203	DE 1998-19834751	19980801 <--
US 6121308	A	20000919	US 1999-359487	19990722 <--
CA 2337825	A1	20000217	CA 1999-2337825	19990727 <--
WO 200008014	A1	20000217	WO 1999-EP5371	19990727 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9952885	A	20000228	AU 1999-52885	19990727 <--

EP 1100795	A1	20010523	EP 1999-938353	19990727 <--
EP 1100795	B1	20040609		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002522432	T	20020723	JP 2000-563647	19990727 <--
AT 268763	T	20040615	AT 1999-938353	19990727
PT 1100795	T	20041029	PT 1999-938353	19990727
ES 2223177	T3	20050216	ES 1999-938353	19990727
PRIORITY APPLN. INFO.:			DE 1998-19834751	A 19980801
			US 1998-98838P	P 19980902
			WO 1999-EP5371	W 19990727
OTHER SOURCE(S):			MARPAT 132:137386	
GI				



AB RaZ2Z1ZR [I; R = cyano or C(:NH)NHRb; Ra = (alkyl)amino, phenylalkoxy, NR4COR3, etc.; Rb = H, OH, alkyl, metabolically labile group; Z = (un)substituted (hetero)arylene; Z1 = (alkyl-substituted) CH2CH2, -OCH2, -CH2O, -NHCH2, etc.; Z2 = indole-, benzimidazole-, benzoxazole-n,2-diyl, quinolinediyl, etc.; n = 4-7] were prepared. Thus, 2-methylamino-5-nitroaniline was cyclocondensed with HO2CCH2CH2C6H4(CN)-4 and the reduced product N-substituted by, successively, MeSO2Cl and BrCH2CO2Et to give, after aminolysis and saponification, title compound II. Data for biol.

activity of

I were given.

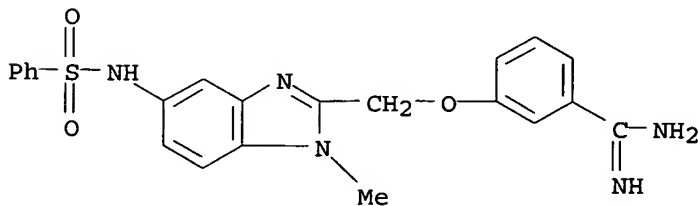
IT 256491-55-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclalkylbenzamidines and analogs as thrombin inhibitors)

RN 256491-55-1 HCAPLUS

CN Benzenecarboximidamide, 3-[[1-methyl-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]methoxy]- (9CI) (CA INDEX NAME)



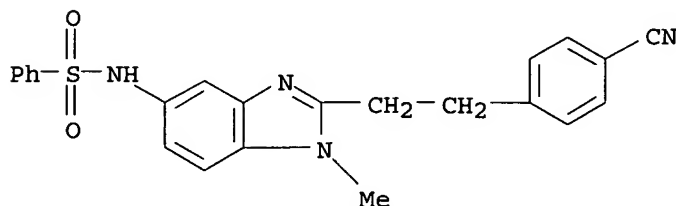
IT 256493-19-3 256493-38-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of heterocyclalkylbenzamidines and analogs as thrombin inhibitors)

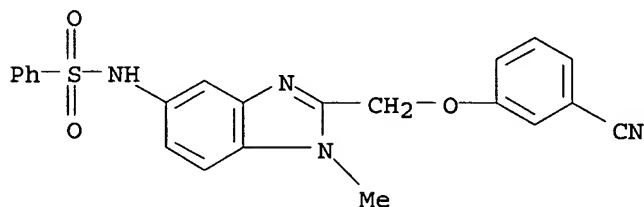
RN 256493-19-3 HCAPLUS

CN Benzenesulfonamide, N-[2-[2-(4-cyanophenyl)ethyl]-1-methyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 256493-38-6 HCAPLUS

CN Benzenesulfonamide, N-[2-[(3-cyanophenoxy)methyl]-1-methyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



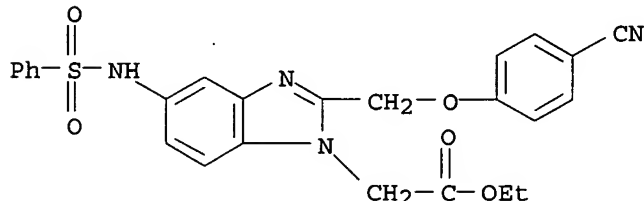
IT 256492-55-4P 256492-57-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclalkylbenzamidines and analogs as thrombin inhibitors)

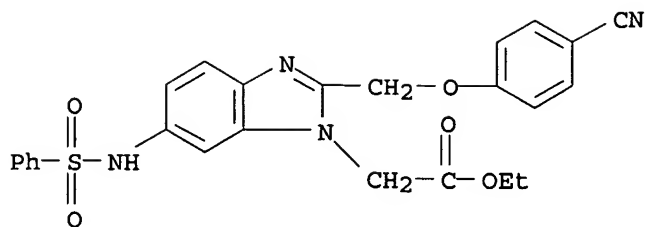
RN 256492-55-4 HCAPLUS

CN 1H-Benzimidazole-1-acetic acid, 2-[(4-cyanophenoxy)methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



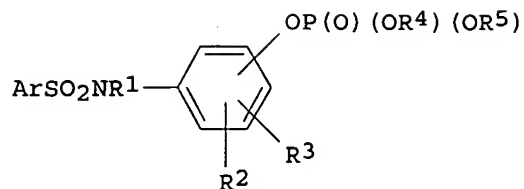
RN 256492-57-6 HCAPLUS

CN 1H-Benzimidazole-1-acetic acid, 2-[(4-cyanophenoxy)methyl]-6-[(phenylsulfonyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 13 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:819384 HCAPLUS
 DOCUMENT NUMBER: 132:64058
 TITLE: Preparation and antitumor activity of
 arylsulfonanilide phosphates
 INVENTOR(S): Houze, Jonathan B.
 PATENT ASSIGNEE(S): Tularik Inc., USA
 SOURCE: PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967258	A1	19991229	WO 1999-US13759	19990616 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2335559	A1	19991229	CA 1999-2335559	19990616 <--
AU 9945768	A	20000110	AU 1999-45768	19990616 <--
AU 763687	B2	20030731		
EP 1090014	A1	20010411	EP 1999-928777	19990616 <--
EP 1090014	B1	20030903		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002518506	T	20020625	JP 2000-555910	19990616 <--
AT 248845	T	20030915	AT 1999-928777	19990616
US 6211167	B1	20010403	US 2000-595398	20000614 <--
US 2001018430	A1	20010830	US 2001-779419	20010207 <--
US 6417176	B2	20020709		
PRIORITY APPLN. INFO.:			US 1998-90681P	P 19980625
			WO 1999-US13759	W 19990616
			US 1999-336062	B1 19990618
			US 2000-595398	A1 20000614
OTHER SOURCE(S):			MARPAT 132:64058	
GI				



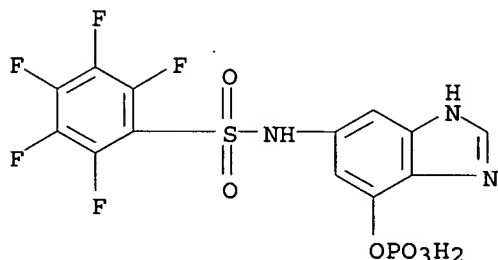
AB The title compds. I [R1 = H, alkyl, heteroalkyl; R2, R3 = H, halo, alkyl, etc.; R2 and R3 when attached to adjacent C atoms can form a ring; R4, R5 = H, alkyl, aryl, etc.; Ar = substituted Ph] were prepared and their antitumor activity assessed. E.g., 5-(pentafluorophenylsulfonamido)-2-methoxyphenyl phosphate was prepared

IT 253141-42-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antitumor activity of arylsulfonamide phosphates)

RN 253141-42-3 HCAPLUS

CN Benzenesulfonamide, 2,3,4,5,6-pentafluoro-N-[7-(phosphonooxy)-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 14 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:505930 HCAPLUS

DOCUMENT NUMBER: 131:157761

TITLE: 5-Membered heterocyclic condensed benzo derivatives, their preparation, and their use as drugs

INVENTOR(S): Ries, Uwe; Huel, Norbert; Mihm, Gerhard; Priepke, Henning; Binder, Klaus; Stassen, Jean Marie; Wienen, Wolfgang; Zimmermann, Rainer

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 94 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19804085	A1	19990805	DE 1998-19804085	19980203 <--
CA 2319494	A1	19990812	CA 1999-2319494	19990128 <--
WO 9940072	A1	19990812	WO 1999-EP537	19990128 <--

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 9927201 A 19990823 AU 1999-27201 19990128 <--
 EP 1060166 A1 20001220 EP 1999-907437 19990128 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
 JP 2002502844 T 20020129 JP 2000-530502 19990128 <--
 US 6114532 A 20000905 US 1999-243200 19990202 <--
 PRIORITY APPLN. INFO.: DE 1998-19804085 A 19980203
 US 1998-77694P P 19980312
 DE 1998-19834325 A 19980730
 WO 1999-EP537 W 19990128

OTHER SOURCE(S): MARPAT 131:157761

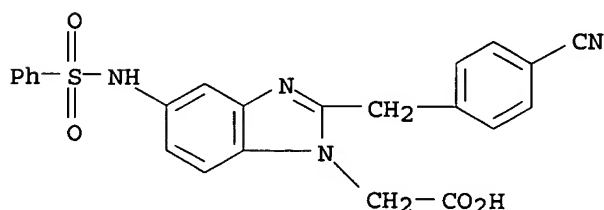
AB Approx. 300 antithrombotic title compds. such as 4-[5-[N-(8-quinolylsulfonyl)-N-(carboxymethyl)amino]-1-methyl-1H-benzimidazol-2-ylmethyl]benzamidinium hydrochloride (I), 4-[5-[N-(benzenesulfonyl)-N-(2-(dimethylamino)ethyl)amino]-1-benzyl-1H-benzimidazol-2-ylmethyl]benzamidinium dihydrochloride, 4-[5-[N-(3-carboxypropionyl)-N-(cyclopentyl)amino]-1-methyl-1H-benzimidazol-2-ylmethyl]benzamidinium hydrochloride (II), and 4-[5-[N-(8-quinolylsulfonyl)-N-(carboxymethyl)amino]-1-methyl-1H-benzothiazol-2-ylmethyl]benzamidinium hydrochloride were prepared by standard methods. The ED₅₀ in μ M for I was 0.92 and for II was 0.82. Formulations for the antithrombotics were given.

IT 236418-60-3 237750-73-1 237750-74-2
 237750-75-3 237750-76-4 237750-77-5
 237750-78-6 237750-80-0 237750-86-6
 237750-87-7 237750-88-8 237750-92-4
 237751-01-8 237751-21-2 237752-02-2
 237752-09-9 237752-10-2 237752-11-3
 237752-12-4

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and antithrombotic activity of benzimidazolylmethylbenzamidines)

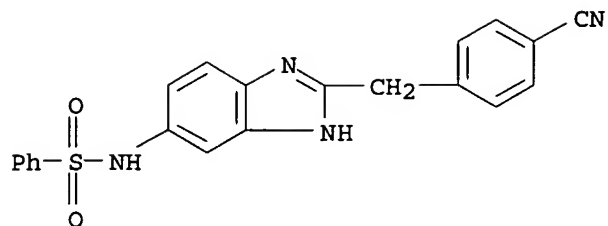
RN 236418-60-3 HCAPLUS

CN 1H-Benzimidazole-1-acetic acid, 2-[(4-cyanophenyl)methyl]-5-[(phenylsulfonyl)amino]- (9CI) (CA INDEX NAME)



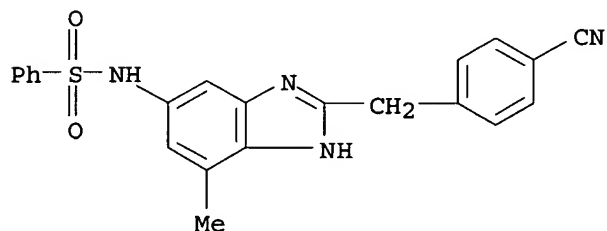
RN 237750-73-1 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



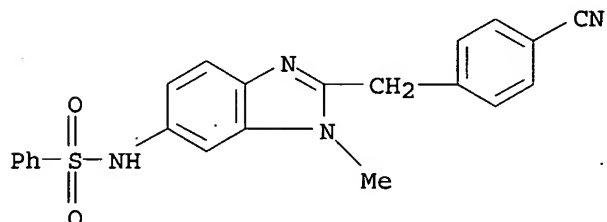
RN 237750-74-2 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-7-methyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



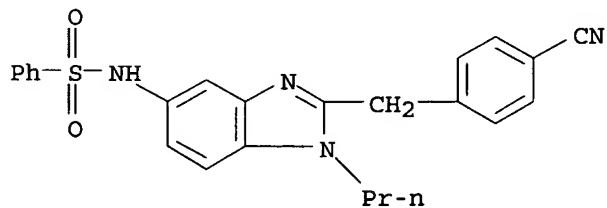
RN 237750-75-3 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-6-yl]- (9CI) (CA INDEX NAME)



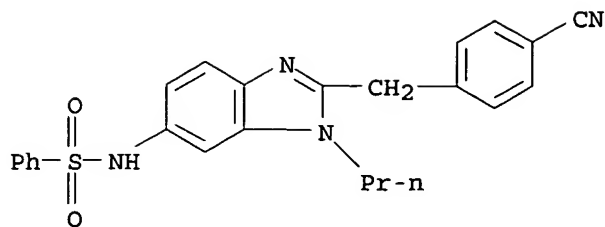
RN 237750-76-4 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-propyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)

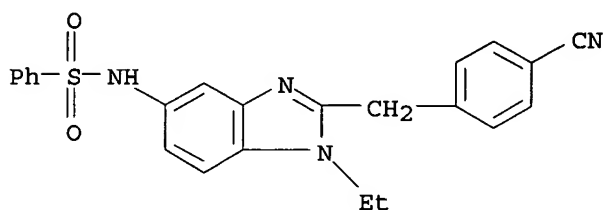


RN 237750-77-5 HCAPLUS

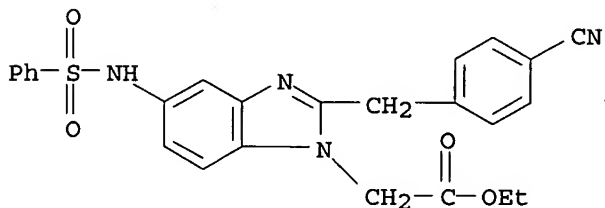
CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-propyl-1H-benzimidazol-6-yl]- (9CI) (CA INDEX NAME)



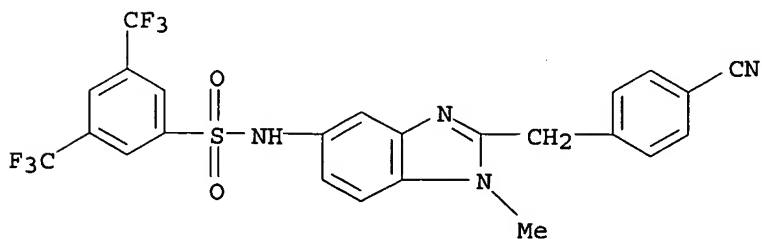
RN 237750-78-6 HCAPLUS
 CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-ethyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



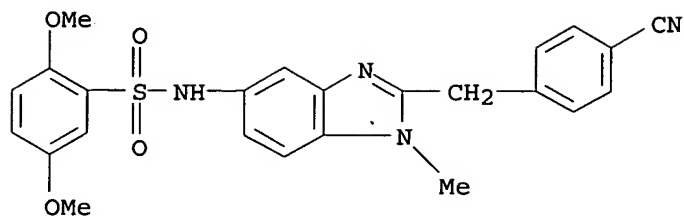
RN 237750-80-0 HCAPLUS
 CN 1H-Benzimidazole-1-acetic acid, 2-[(4-cyanophenyl)methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 237750-86-6 HCAPLUS
 CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-5-yl]-3,5-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)

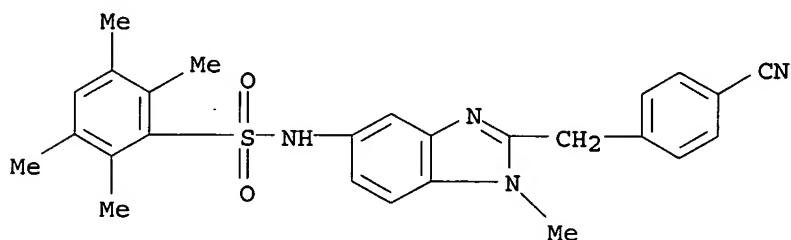


RN 237750-87-7. HCAPLUS
 CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-5-yl]-2,5-dimethoxy- (9CI) (CA INDEX NAME)



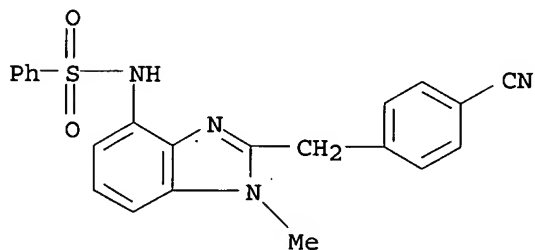
RN 237750-88-8 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-5-yl]-2,3,5,6-tetramethyl- (9CI) (CA INDEX NAME)



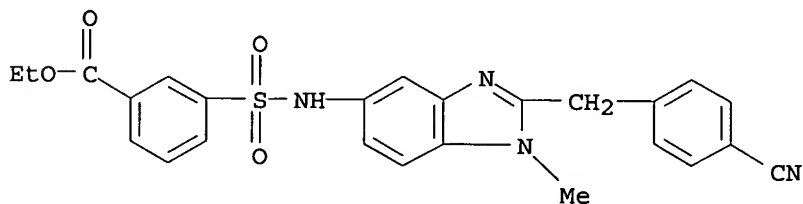
RN 237750-92-4 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-4-yl]- (9CI) (CA INDEX NAME)



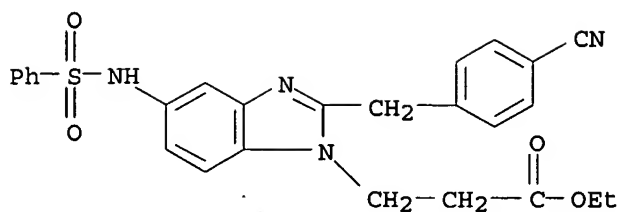
RN 237751-01-8 HCAPLUS

CN Benzoic acid, 3-[[[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-5-yl]amino]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)



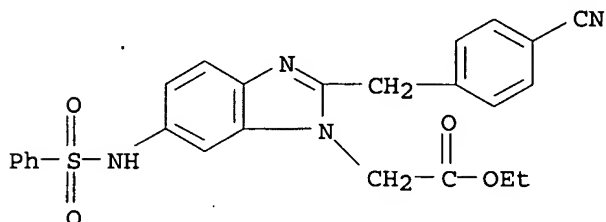
RN 237751-21-2 HCAPLUS

CN 1H-Benzimidazole-1-propanoic acid, 2-[(4-cyanophenyl)methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



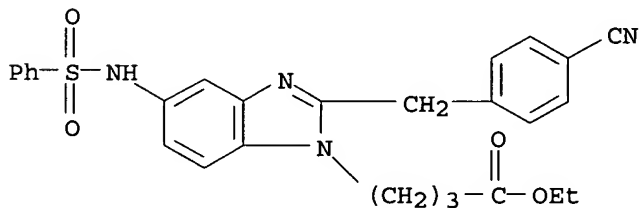
RN 237752-02-2 HCAPLUS

CN 1H-Benzimidazole-1-acetic acid, 2-[(4-cyanophenyl)methyl]-6-[(phenylsulfonyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



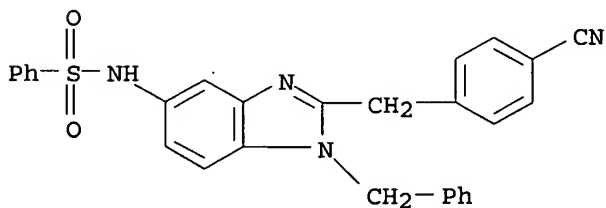
RN 237752-09-9 HCAPLUS

CN 1H-Benzimidazole-1-butanoic acid, 2-[(4-cyanophenyl)methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 237752-10-2 HCAPLUS

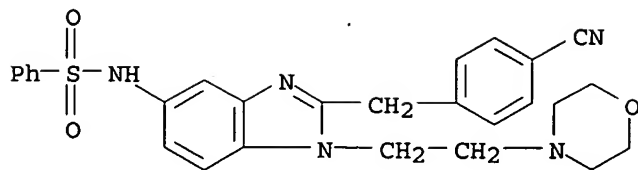
CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-(phenylmethyl)-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



RN 237752-11-3 HCAPLUS

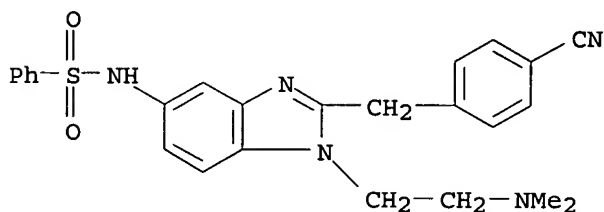
CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-[2-(4-morpholinyl)ethyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)

10690708.trn



RN 237752-12-4 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-[2-(dimethylamino)ethyl]-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



IT 236414-44-1P 236417-29-1P 236417-38-2P

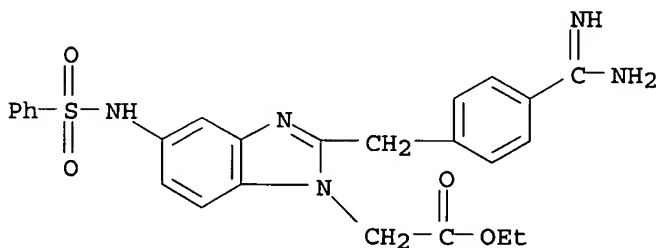
236418-28-3P 237750-36-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and antithrombotic activity of benzimidazolylmethylbenzamidines)

RN 236414-44-1 HCAPLUS

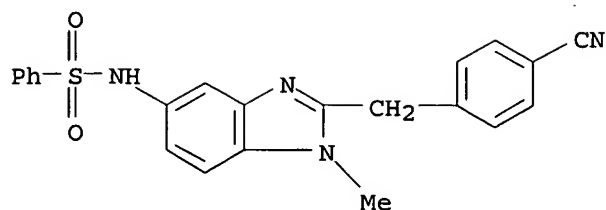
CN 1H-Benzimidazole-1-acetic acid, 2-[[4-(aminoiminomethyl)phenyl]methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

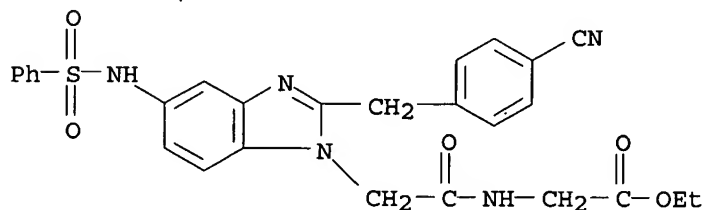
RN 236417-29-1 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-1-methyl-1H-benzimidazol-5-yl]- (9CI) (CA INDEX NAME)



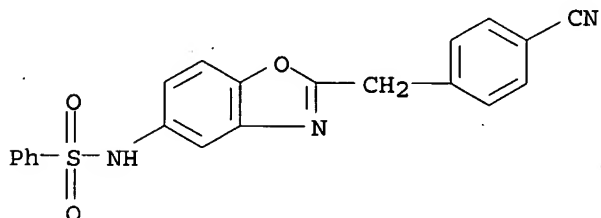
RN 236417-38-2 HCAPLUS

CN Glycine, N-[[2-[(4-cyanophenyl)methyl]-5-[(phenylsulfonyl)amino]-1H-benzimidazol-1-yl]acetyl]-, ethyl ester (9CI) (CA INDEX NAME)



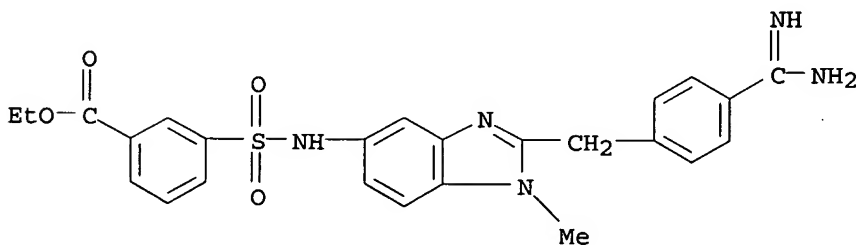
RN 236418-28-3 HCAPLUS

CN Benzenesulfonamide, N-[2-[(4-cyanophenyl)methyl]-5-benzoxazolyl]- (9CI) (CA INDEX NAME)



RN 237750-36-6 HCAPLUS

CN Benzoic acid, 3-[[[2-[(4-aminoiminomethyl)phenyl]methyl]-1-methyl-1H-benzimidazol-5-yl]amino]sulfonyl]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



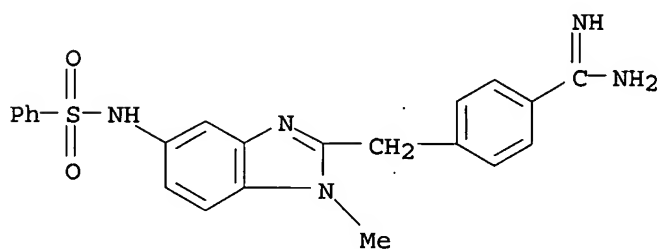
● HCl

IT 236414-28-1P 236414-29-2P 236414-31-6P
 236414-32-7P 236414-34-9P 236414-36-1P
 236414-40-7P 236414-45-2P 236414-55-4P
 236414-56-5P 236414-57-6P 236414-63-4P
 236414-87-2P 236415-07-9P 236415-08-0P
 236415-09-1P 236415-10-4P 236415-53-5P
 236416-84-5P 237750-37-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and antithrombotic activity of benzimidazolylmethylbenzamidines
)

RN 236414-28-1 HCAPLUS

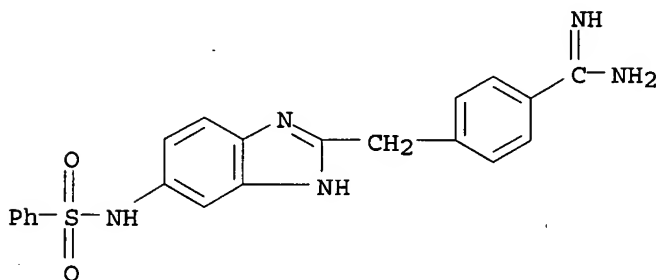
CN Benzenecarboximidamide, 4-[[1-methyl-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236414-29-2 HCAPLUS

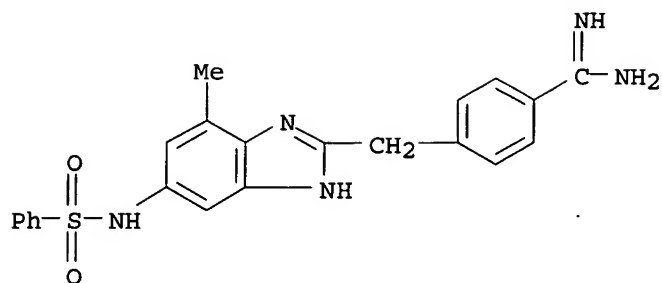
CN Benzenecarboximidamide, 4-[[5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

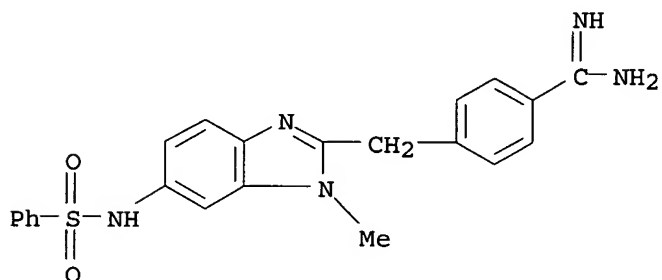
RN 236414-31-6 HCAPLUS

CN Benzenecarboximidamide, 4-[[4-methyl-6-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



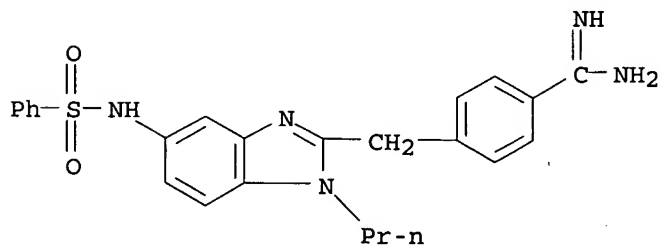
● HCl

RN 236414-32-7 HCAPLUS
 CN Benzenecarboximidamide, 4-[[1-methyl-6-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236414-34-9 HCAPLUS
 CN Benzenecarboximidamide, 4-[[5-[(phenylsulfonyl)amino]-1-propyl-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

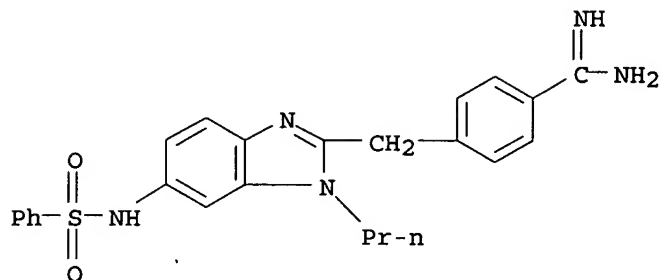


● HCl

RN 236414-36-1 HCAPLUS
 CN Benzenecarboximidamide, 4-[[6-[(phenylsulfonyl)amino]-1-propyl-1H-

10690708.trn

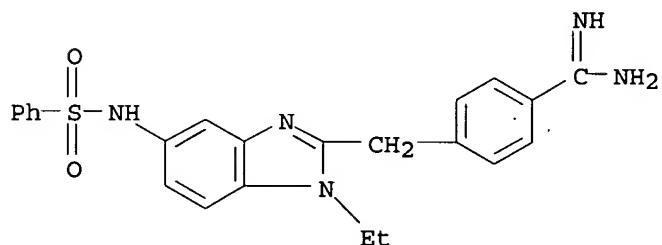
benzimidazol-2-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236414-40-7 HCAPLUS

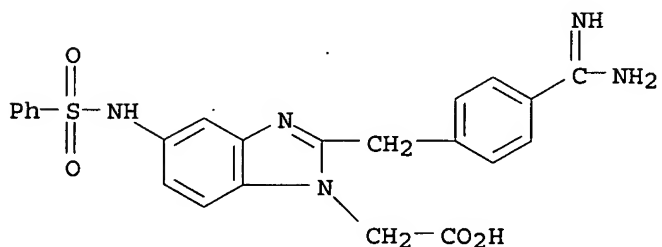
CN Benzenecarboximidamide, 4-[[1-ethyl-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

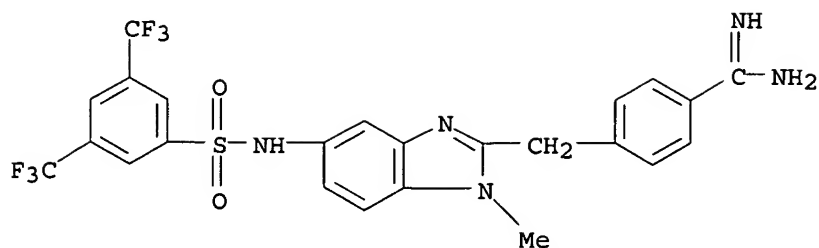
RN 236414-45-2 HCAPLUS

CN 1H-Benzimidazole-1-acetic acid, 2-[[4-(aminoiminomethyl)phenyl)methyl]-5-[(phenylsulfonyl)amino]- (9CI) (CA INDEX NAME)



RN 236414-55-4 HCAPLUS

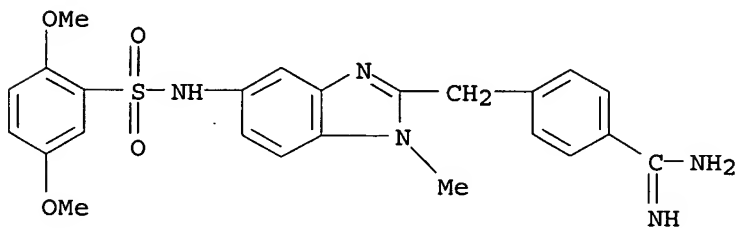
CN Benzenecarboximidamide, 4-[[5-[[[3,5-bis(trifluoromethyl)phenyl]sulfonyl]amino]-1-methyl-1H-benzimidazol-2-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236414-56-5 HCAPLUS

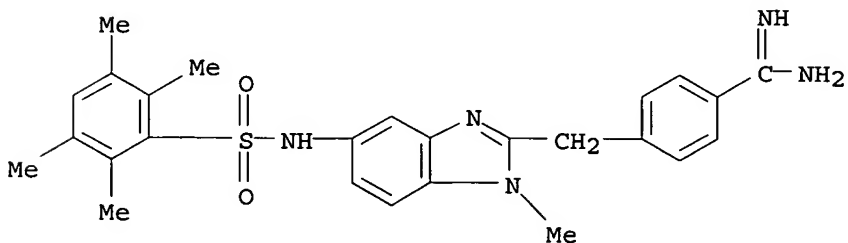
CN Benzenecarboximidamide, 4-[[5-[[[(2,5-dimethoxyphenyl)sulfonyl]amino]-1-methyl-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236414-57-6 HCAPLUS

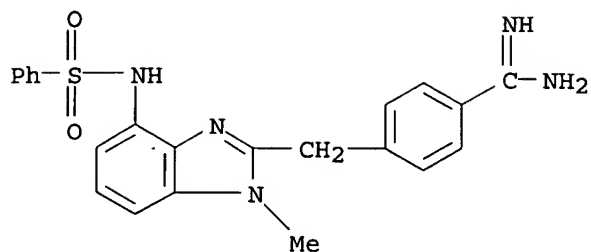
CN Benzenecarboximidamide, 4-[[1-methyl-5-[[[(2,3,5,6-tetramethylphenyl)sulfonyl]amino]-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

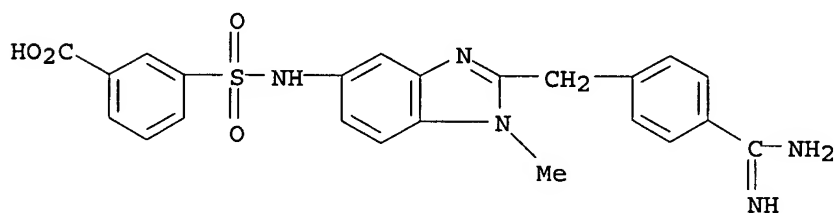
RN 236414-63-4 HCAPLUS

CN Benzenecarboximidamide, 4-[[1-methyl-4-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



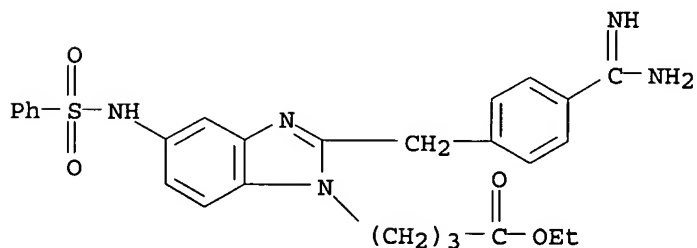
● HCl

RN 236414-87-2 HCAPLUS
 CN Benzoic acid, 3-[[[2-[[4-(aminoiminomethyl)phenyl]methyl]-1-methyl-1H-benzimidazol-5-yl]amino]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236415-07-9 HCAPLUS
 CN 1H-Benzimidazole-1-butanoic acid, 2-[[[4-(aminoiminomethyl)phenyl]methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

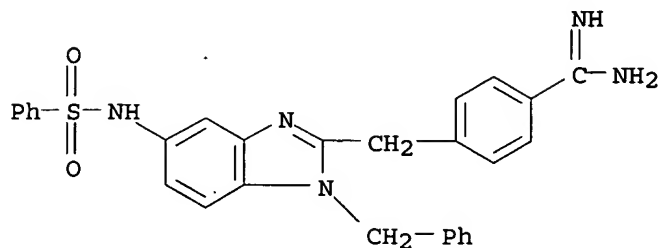


● HCl

RN 236415-08-0 HCAPLUS
 CN Benzenecarboximidamide, 4-[[[1-(phenylmethyl)-5-[(phenylsulfonyl)amino]-1H-

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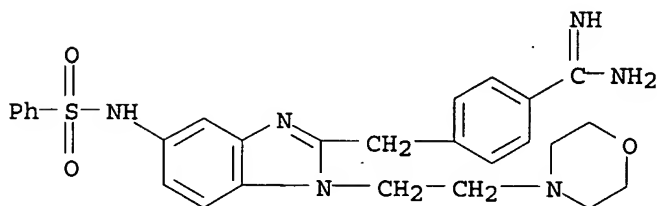
benzimidazol-2-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236415-09-1 HCAPLUS

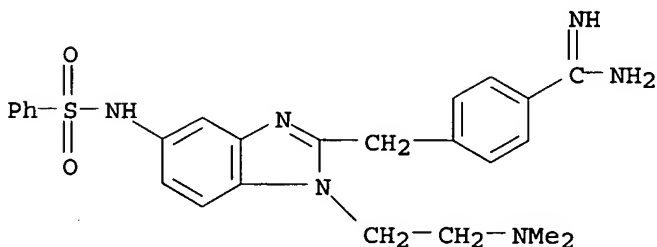
CN Benzenecarboximidamide, 4-[[1-[2-(4-morpholinyl)ethyl]-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 236415-10-4 HCAPLUS

CN Benzenecarboximidamide, 4-[[1-[2-(dimethylamino)ethyl]-5-[(phenylsulfonyl)amino]-1H-benzimidazol-2-yl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

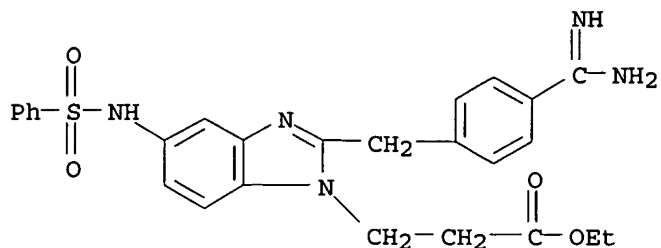


● 2 HCl

RN 236415-53-5 HCAPLUS

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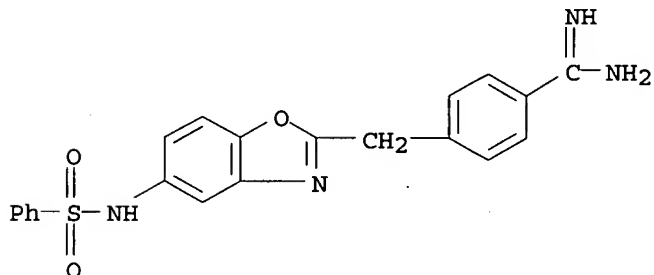
CN 1H-Benzimidazole-1-propanoic acid, 2-[[4-(aminoiminomethyl)phenyl]methyl]-5-[(phenylsulfonyl)amino]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 236416-84-5 HCAPLUS

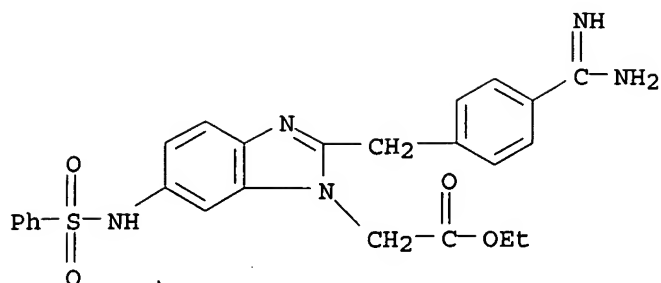
CN Benzenecarboximidamide, 4-[[5-[(phenylsulfonyl)amino]-2-benzoxazolyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 237750-37-7 HCAPLUS

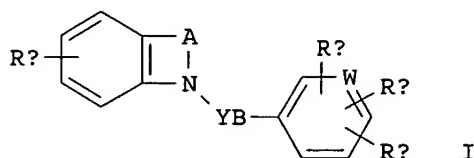
CN 1H-Benzimidazole-1-acetic acid, 2-[[4-(aminoiminomethyl)phenyl]methyl]-6-[(phenylsulfonyl)amino]-, ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L15 ANSWER 15 OF 39 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:35065 HCAPLUS
 DOCUMENT NUMBER: 130:110166
 TITLE: Preparation of amidinophenylpropionyltetrahydroquinolines and related compounds as antithrombotics.
 INVENTOR(S): Heckel, Armin; Soyka, Rainer; Grell, Wolfgang; Haaksma, Eric; Binder, Klaus; Zimmermann, Rainer
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
 SOURCE: Ger. Offen., 50 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19727117	A1	19990107	DE 1997-19727117	19970626 <--
CA 2288744	A1	19990107	CA 1998-2288744	19980622 <--
WO 9900371	A1	19990107	WO 1998-EP3800	19980622 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9887279	A	19990119	AU 1998-87279	19980622 <--
EP 991624	A1	20000412	EP 1998-938621	19980622 <--
EP 991624	B1	20031119		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002511088	T	20020409	JP 1999-505265	19980622 <--
AT 254602	T	20031215	AT 1998-938621	19980622
MX 9911261	A	20000630	MX 1999-11261	19991206 <--
US 6300342	B1	20011009	US 1999-457961	19991209 <--
PRIORITY APPLN. INFO.:			DE 1997-19727117	A 19970626
			WO 1998-EP3800	W 19980622
OTHER SOURCE(S):		MARPAT 130:110166		
GI				



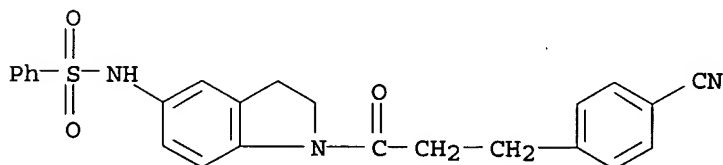
AB Title compds. [I; Ra = H, NO₂, amino, aminocarbonyl; Rb = cyano, aminomethyl, (substituted) amidino; Rc, Rd = H, F, Cl, Br, iodo, Me, MeO, NO₂, amino; A = (substituted) ethylene, ethenylene, propylene, etc.; B = bond, (substituted) methylene, ethylene, ethenylene, propylene, etc.; W = N, CH; Y = CH₂, CO, CS], were prepared Thus, 1-[3-(4-amidinophenyl)propionyl]-1,2,3,4-tetrahydroquinoline-6-carboxylic acid methyl-N-phenylamide (preparation given) had a thrombin time ED₂₀₀ = 0.02 μM.

IT 219643-32-0P 219644-16-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amidinophenylpropionyltetrahydroquinolines and related compds. as antithrombotics)

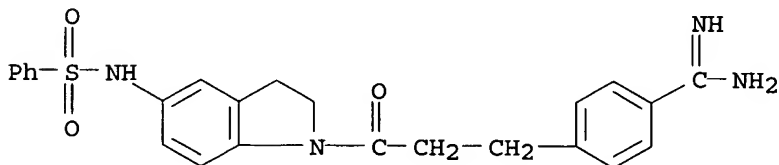
RN 219643-32-0 HCAPLUS

CN 1H-Indol-5-amine, 1-[3-(4-cyanophenyl)-1-oxopropyl]-2,3-dihydro-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 219644-16-3 HCAPLUS

CN 1H-Indol-5-amine, 1-[3-[4-(aminoiminomethyl)phenyl]-1-oxopropyl]-2,3-dihydro-N-(phenylsulfonyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

=> log y
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

10690708.trn

FULL ESTIMATED COST	136.81	700.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-17.94	-20.28

STN INTERNATIONAL LOGOFF AT 12:58:14 ON 13 MAR 2007